

CITY OF HIGHLAND REGULAR MEETING OF THE PLANNING COMMISSION AGENDA

MEMBERS

Randall Hamerly, Chair
Chandra Thomas, Vice Chair
Edward Amaya, Commissioner
Jarrod Miller, Commissioner
Jessica Sutorus, Commissioner

REGULAR MEETING

December 15, 2020
6:00 p.m.
City Hall
Donahue Council Chambers
27215 Base Line
Highland, California

STAFF

Lawrence A. Mainez, Community Development Director
Kim Stater, Assistant Community Development Director
Ashiq Syed, Associate Planner
Salvador Quintanilla, Associate Planner
Angela Tafolla, Planning Technician II
Camille Goritz, Administrative Assistant III



MISSION STATEMENT

Highland is dedicated to the betterment of the individual, the family, the neighborhood and the community. The City Council and the staff of Highland are dedicated to providing the quality of public facilities and services that its citizens are willing to fund and will do so as efficiently as possible.

Visit the City's Website at: www.cityofhighland.org

CITY OF HIGHLAND • 27215 BASE LINE • HIGHLAND, CALIFORNIA 92346 • (909) 864-6861 ☎ • (909) 862-3180 📠

The City of Highland complies with the Americans with Disabilities Act of 1990. If you require special assistance to attend or participate in this meeting, please call the City Clerk's Office at (909) 864-6861 Ex. 226, at least 48 hours prior to the meeting.

Pursuant to Government Code Section 54957.5, any disclosable public records related to an open session item on a regular meeting agenda and distributed by the City of Highland to all or a majority of the Planning Commission, less than 72 hours prior to that meeting, are available for public inspection at Highland City Hall, 27215 Base Line, Highland, CA 92346, during normal business hours.

SPECIAL NOTICE REGARDING COVID-19

In accordance with Governor Newsom's Executive Order N-25-20 and N-29-20, this meeting is being conducted via teleconference/Zoom. Anyone can join the meeting virtually or by phone:

- To join the Zoom Meeting online: <https://zoom.us/j/97380833311>
- Listen to the meeting by calling (669) 900-9128 and enter the Meeting ID: 973 8083 3311#

Toll free phone numbers:

(877) 853-5247 or (888) 788-0099
Meeting ID: 973 8083 3311#

Submission of Public Comments: For those wishing to make public comments (items not on the agenda), please submit your comments by email to be read aloud at the meeting by the Community Development Administrative Assistant. Email comments must be submitted by 5:00 p.m. on December 15, 2020, to publiccomment@cityofhighland.org.

For those wishing to make a public comment regarding a public hearing item, please identify the agenda item in the subject line. Comments can be submitted any time prior to the meeting, as well as during the meeting up until the end of the corresponding item. Please email your comments to publiccomment@cityofhighland.org.

For those wishing to make a public comment regarding an item on the agenda, please identify the agenda item in the subject line. Email comments must be submitted by 5:00 p.m. on December 15, 2020, to publiccomment@cityofhighland.org. All email comments received by the deadline will be read aloud and shall be subject to the same rules as would otherwise govern speaker comments at the Planning Commission meeting.

PLANNING COMMISSION REGULAR MEETING AGENDA December 15, 2020 – 6:00 P.M.

CALL TO ORDER

Pledge of Allegiance

COMMUNITY INPUT (ITEMS NOT ON THE AGENDA)

CONSENT CALENDAR

1. Minutes from the November 17, 2020 Regular Meeting.

RECOMMENDATION: That the Planning Commission approve the minutes, as submitted.

PUBLIC HEARING

2. Accessory Sign Review Application (ASR 20-006) is a request to amend the 7-Eleven Sign Program to increase the height and the overall sign area of two future monument signs which identify the gas station and future tenants along Greenspot Road and Boulder Avenue. (Continued from the November 3, 2020, Planning Commission Meeting)

RECOMMENDATION: Staff recommends the Planning Commission:

- 1) Adopt Resolution No. 2020-____, to approve Accessory Sign Application (ASR 20-006) to amend the previously approved 7-Eleven Sign Program to increase the height and sign area of two (2) monument signs, subject to the Conditions of Approval, and Findings of Fact; and
- 2) Direct Staff to file a Notice of Exemption with the County Clerk of the Board.

3. City of Highland Active Transportation Plan (ATP); a comprehensive plan for the network of trails, bike lanes, sidewalks, and other elements to support safe walking and bicycling in the City.

RECOMMENDATION: Staff recommends the Planning Commission:

- 1) Adopt Resolution No. 2020-____, recommending the City Council approve and adopt the City of Highland Active Transportation Plan, and direct Staff to file a Notice of Exemption with the County Clerk of the Board.

ANNOUNCEMENTS

ADJOURN

I, Camille Goritz, Administrative Assistant III, of the City of Highland, California, certify I caused to be posted this agenda on or before the 9th of December by 5:30 p.m. on our website at www.cityofhighland.org and in the following designated areas:

Highland Branch Library
7863 Central Avenue

Fire Station No. 1
26974 Base Line

City Hall
27215 Base Line

Date: December 9, 2020



Camille Goritz, Administrative Assistant III



STAFF REPORT

TO THE PLANNING COMMISSION

DATE: December 15, 2020

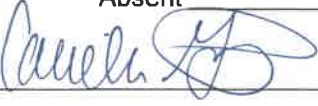
FROM: Lawrence Mainez, Community Development Director

PREPARED BY: Camille Goritz, Administrative Assistant III *CG*

SUBJECT: Minutes from the November 17, 2020 Planning Commission Regular Meeting.

RECOMMENDATION: Staff recommends the Planning Commission approve the Minutes as submitted.

PUBLIC NOTICE: The agenda for this item was posted at the three locations per Resolution No. 2011-047 and on the City's website.

Approved _____	Motion _____	Second _____	Agenda Item No. <u>1</u>
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		
 Recording Secretary		 Community Development Director	

**MINUTES
PLANNING COMMISSION REGULAR MEETING
November 17, 2020 – 6:00 P.M.**

CALL TO ORDER

The regular meeting of the Planning Commission of the City of Highland was called to order at 6:01 p.m. by Chair Hamerly at the Donahue Council Chambers, 27215 Base Line, Highland, California.

Present:	Chair	Randall Hamerly
	Vice Chair	Chandra Thomas
	Commissioner	Edward Amaya
	Commissioner	Jarrold Miller
	Commissioner	Jessica Sutorus

Staff Present: Lawrence Mainez, Community Development Director
Kim Stater, Assistant Community Development Director
Ash Syed, Associate Planner
Salvador Quintanilla, Associate Planner
Matt Bennett, Assistant Public Works Director
Camille Goritz, Administrative Assistant III

The Pledge of Allegiance was led by Chair Hamerly

COMMUNITY INPUT (ITEMS NOT ON THE AGENDA)

None

CONSENT CALENDAR

1. Minutes from the November 3, 2020 Regular Meeting.

A MOTION was made by Commissioner Thomas, seconded by Commissioner Miller, to approve the minutes as amended. Motion carried, 5-0.

The Planning Commissioners and City Staff introduced themselves.

PUBLIC HEARING

2. Amendment to the Mediterra Planned Development (SPR 20-001/PUD 13-001) to include a 1.6 acre parcel “annexation” and clarify the construction timing of certain park improvements, a General Plan Amendment (GPA 20-001), a Zone Change (ZC 20-001), an amendment to Conditional Use Permit (CUP 14-005), and an amendment to Tentative Tract Map 18893 (TTM 14-002).

Chair Hamerly opened the public hearing.

Associate Planner Syed presented the staff report.

Commissioner Miller asked is it anticipated that the proposed and pervious surfaces associated with this project will increase as well given the development of the 1.6 acres? Or is the change of dwelling units and the fourth phase going to offset the additional perviousness for the 1.6 acres?

Assistant Public Works Director Bennett replied the plans for phase four has not been disclosed so I do not know what the pervious areas are going to be yet. In total, the site is still draining towards the basin on the south side of Greenspot Road. The area has been incorporated in the drainage study initially. It was within the boundaries, effectively if there is a net increase or decrease it is still within the sizing and capacity of the offsite drainage and offsite water quality feature. As far as the hydrology and the water quality it is covered.

Commissioner Miller asked is there adequate capacity for the storm drain system? Was this already planned to drain into that system?

Assistant Public Works Director Bennett stated yes, the existing storm draining west towards Santa Paula and down the road is a 92-inch large capacity system. It is going to mitigate its overall flows. The concerns have been evaluated in the design to this point. The overall capacity is a concern, the site has extensive drainage to control it and the basin itself has mitigated those volumes.

Commissioner Miller stated I believe there is a significant portion of phase four that currently drains under Greenspot through East Valley Water District. Is that now going to be rerouted into the basin and be redirected to discharge to Greenspot Road storm drain system?

Assistant Public Works Director Bennett stated yes, there is existing culverts that are going to be removed with widening of the roadway. The drainage will be contained within the project and then accommodated by the drainage facilities being constructed. The offsite flows along Greenspot will be draining along Greenspot Road picked up eventually by a catch basin that is going to be provided on the northside of Greenspot which will be connected into the system draining into the basin.

Chair Hamerly asked does that mean there would be no inflow into the eastern most settlement basins that are adjacent to Greenspot on the Water District property? The culvert is the only thing that feeds into eastern edge of those two pond features there.

Commissioner Miller stated that I designed those system. I can tell you the basins along Greenspot Road collect run off only from Greenspot Road and then discharge back to Greenspot. The drainage that come from the northside off Greenspot are conveyed underneath and are not discharged to the basins.

Commissioners Amaya asked if the end date for the whole project is March 8, 2022.

Vice Chair Thomas asked is there a reason why we would take our ability to withhold occupancy? In this situation is it because the park is delayed development?

Camille Bahri, Applicant gave a brief overview of the project.

Vice Chair Thomas asked the Mediterra park that is in the planning area one, will that be completed with planning area four?

Camille Bahri stated both the public portion and the recreation center, the private portion will be completed with planning area one and two.

Vice Chair Thomas asked will it be completed by then?

Camille Bahri replied yes.

Vice Chair Thomas asked what will be the mechanism to ensure that the park gets constructed if occupancy is not held?

Camille Bahri explained that building permits within phases 1 and 2 would be held at 140 if the park was not yet constructed.

Vice Chair Thomas asked what is the total number of lots for planning area one and two?

Camille Bahri stated planning area one is 98 lots and planning area two is 51 lots. All together is 149 lots.

Commissioner Amaya stated that Planning Area 5 contains estates. In the research in your last five six years, is there is demand for the estates?

Camille Bahri replied correct. It is not only a bigger lot but also the character. The topographical distinction between the main project area access is a little bit more challenging, therefore you cannot stack up a lot of units.

Chair Hamerly stated you had mentioned that Planning Area 4 had not been fully resolved. If there is a plotting for Phase 4 are the nine lots that are being removed from there are going to be a part of a common area feature?

Camille Bahri stated no, we are not setting aside land. The impacts that are assessed under the CEQA process is for 316. The number of units in Planning Area 4 instead of being allowed 108 would be 99.

Commissioner Miller abstained on the vote due to a conflict of interest with DR Horton with whom he has a business relationship.

Commissioner Sutorus thanked the developer for the architectural design features.

Community Development Director Mainez wanted to thank Commissioner Miller for speaking up about the conflict of interest on this item. Normally, we would like Commissioners to abstain at the beginning of the item. Staff will now escort you out of the room while we vote on this item.

Commissioner Miller left the dais.

Chair Hamerly closed the public hearing.

A MOTION was made by Commissioner Sutorus, seconded by Commissioner Amaya, to approve Resolution No. 2020-009 to:

1. Adopt Resolution No. 2020-___ approving an Addendum to the Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program for the Mediterra Planned Development (PUD 13—001) pursuant to the California Environmental Quality Act (CEQA);
2. Adopt Resolution No. 2020-___ approving General Plan Amendment (GPA 20-001) changing the Land Use Designation from Agriculture/Equestrian (AG/EQ) to Planned Development (PD);
3. Introduce Ordinance No. ___ to amend the City's Official Zoning Map, Zone Change (ZC 20-001), changing the zoning designation of the site from Agricultural/Equestrian (A/EQ) to Planned Development "PD 13-001";
4. Adopt Resolution No. 2020___ amending Conditional Use Permit (CUP 14-005) to incorporate a 1.6-acre parcel and deferring certain park improvements for the Mediterra Planned Development; and
5. Adopt Resolution No. 2020-___ amending Tentative Tract No. 18893 (TTM 14-002).

Motion carried, 4-0-1.

RESOLUTION NO. 2020 - 009

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HIGHLAND, CALIFORNIA, RECOMMENDING THE CITY COUNCIL APPROVE GENERAL PLAN AMENDMENT (GPA 20-001), ZONE CHANGE (ZC 20-001), AMENDMENT TO CONDITIONAL USE PERMIT (CUP 14-005), AND AMENDMENT TO TENTATIVE TRACT MAP 18893 (TTM 14-002) RELATED TO THE ADDITION OF A 1.6 ACRE PARCEL INTO THE MEDITERRA PLANNED DEVELOPMENT AND CLARIFICATION FOR THE DATE OF CONSTRUCTION OF CERTAIN PUBLIC PORTIONS OF MEDITERRA PARK.

Commissioner Miller returned to the dias.

3. Design Review Application (DRA) No. 17-006-A2 a request to amend the Real Journey Academies Design Review Application Nos. 17-006 and 17-006-A1 to establish a canopy for the lunch area, golf putting area and drive, sand volleyball court, super court, and tennis court located at the south and east side of the existing charter school campus.

Chair Hamerly opened the public hearing.

Associate Planner Quintanilla presented the staff report.

Development Director Mainez stated the city is proud of this project, it is one of the first adaptive reuse projects in California. Prior to this project it was an abandoned K-Mart that was a public nuisance to the community and now it has redeveloped into a junior high and high school. I would like to thank the applicant.

Commissioner Amaya stated in the staff report had mentioned the construction, and I was wondering if the project will be completed by the beginning of the 2021-2022 school year?

Javier Adrian, Representative of REAL Journey Academies stated yes, we will be submitting our plans for plan check very soon and the contractor is on board. The contractor is estimating a 6-8-week construction time, so we are hoping to start early in the spring and wrap things up in the summer.

Commissioner Amaya stated as far as charter school funding is based on enrollment. With COVID-19 a lot of the enrollments are low. Will the project be financed with a loan?

Javier Adrian stated it is a bond that has been fully executed and the money has been dispersed. The funding is in place for this project.

Commissioner Sutorus asked if there was a concern about security and vandalism?

Javier Adrian stated all the fencing in this project is within the larger fencing security in the campus. They would have to hop the fence that is already in place for security around the campus.

Chair Hamerly stated there is a 10-foot fence that is right behind the goal standard for the futsal goal. Is that an eight-foot goal and anything is tipped do you think a ten foot just along there is going to be tall enough to contain the kicks?

Javier Adrian stated we thought was in the worst case it goes in the school yard. It is not going into the neighbors' yard.

Chair Hamerly closed the public hearing.

A MOTION was made by Commissioner Thomas, seconded by Commissioner Miller, to approve:

1. Direct Staff to file a Notice of Exemption with the County Clerk of the Board; and
2. Adopt Resolution No. 2020-010 Approving Design Review Application (DRA No. 17-006-A2), for the development of the student's recreational and lunch area at REAL Journey Academies, subject to the Conditions of Approval, and the Findings of Fact.

Motion carried, 5-0.

RESOLUTION NO. 2020-010

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HIGHLAND, CALIFORNIA, APPROVING DESIGN REVIEW APPLICATION (DRA) 17-006-A2, TO CONSTRUCT A 1,230 SQUARE FOOT METAL CANOPY WITHIN THE LUNCH AREA, GOLF PUTTING AREA AND DRIVE, SAND VOLLEYBALL COURT, SUPER COURT, AND A TENNIS COURT LOCATED AT THE SOUTH AND EAST SIDE OF THE EXISTING CHARTER SCHOOL CAMPUS, LOCATED AT 26655 HIGHLAND AVENUE, CITY OF HIGHLAND, COUNTY OF SAN BERNARDINO (APN NOS.: 1191-241-36 & 1191-241-38)

4. Accessory Sign Review Application (ASR) No. 20-007 is a request to establish a sign program for the existing Rio Ranch Market building within an existing shopping center.

Chair Hamerly opened the public hearing.

Associate Planner Quintanilla presented the staff report.

Commissioner Amaya asked the two secondary plaza signs will be business also?

Associate Planner Quintanilla replied the secondary signs will remain. The two new ones will be the business names.

Commissioner Sutorus stated you mentioned that the monument sign is not going change, but they are going to add a cabinet.

Associate Planner Quintanilla stated where the arch is, is where the cabinet will go for the four tenants.

Chair Hamerly stated since there are no details for the execution of those four tenant panels, were they going to be brining that back for a design review application when the cabinet is intended to be installed?

Associate Planner Quintanilla stated you are approving the sign program which when the tenants come in staff will review internally. We will take care of the construction and how everything is going to attached to the existing monument sign itself.

Chair Hamerly stated usually there is a little bit more of specificity with a sign program. It gives actual design guidance on what the signs are going to look at, so we know that the different sign elements are tied together visually. These are schematic. From a design standpoint I would be really interested to see how that infill panel is going to look when they are doing a 2x2 grid to fit within that cavity that is existing.

Associate Planner Quintanilla stated that is correct. Typically, we will see that when we submit for the plan check.

Chair Hamerly stated that the Planning Commission does the design review to make sure that it is relating to the architecture. In terms of the sign program it is a little on the thin side for giving us any visual information. The monument sign is a streetscape, and it is an important feature and we always look at monument signs. That is a major element not only for the plaza but for the City of Highland.

Community Development Director Mainez stated staff always tries to do what it can to get out of the applicant the components that we believe is important to the city as well as Planning Commissioners.

Jay McCormack, Applicant stated I would agree with everything that you said. We would gladly bring it back for a design review. We have been there for 22 years and have not changed a sign since we have been there, and we do not plan on changing them. We did have requests from tenants coming in that they might require a monument sign. What we

would look to do is put the sign program into place and then bring any tenant that we were going to put there back to the city and have that approved before we did it.

Chair Hamerly closed the public hearing.

A MOTION was made by Commissioner Amaya, seconded by Commissioner Sutorus, to approve an accessory sign application as modified.

1. Adopt Resolution No. 2020-011 to approve Accessory Sign Application (ASR) as modified No. 20-007 to establish a sign program for the existing Rio Ranch Market, subject to the Conditions of Approval, and Findings of Fact as modified; and
2. Direct Staff to file a Notice of Exemption with the County Clerk of the Board.

Motion carried, 5-0.

RESOLUTION NO. 2020-011

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HIGHLAND, CALIFORNIA, APPROVING ACCESSORY SIGN REVIEW (ASR) NO. 20-007, TO ESTABLISH A SIGN PROGRAM FOR THE EXISTING RIO RANCH MARKET FREESTANDING BUILDING WITHIN AN EXISTING SHOPPING CENTER. THE SITE IS LOCATED AT 25745 BASE LINE (APN: 1192-011-04).

ANNOUNCEMENTS

Assistant Community Development Director Stater announced to the Planning Commissioners 7-Eleven staff report will be continued at our next scheduled meeting.

ADJOURN

There being no further business, Chair Hamerly declared the meeting adjourned at 7:32 p.m.

Submitted by:

Approved by:

Camille Goritz, Administrative Assistant III
Community Development Department

Randall Hamerly, Chair
Planning Commission



STAFF REPORT

TO THE PLANNING COMMISSION

DATE: December 15, 2020

FROM: Lawrence A. Mainez, Community Development Director

REVIEWED BY: Kim Stater, Assistant Community Development Director *[Signature]*

PREPARED BY: Salvador Quintanilla, Associate Planner *SNQ*

SUBJECT: Accessory Sign Review Application (ASR 20-006) is a request to amend the 7-Eleven Sign Program to increase the height and the overall sign area of two future monument signs which identify the gas station and future tenants along Greenspot Road and Boulder Avenue. **(Continued from the November 3, 2020, Planning Commission Meeting)**

LOCATION: 28359 Greenspot Road (APN: 1201-361-28, -29, & -30)

OWNER: Boulder Holdings, LLC, Jian Torkan

REPRESENTATIVE: Warner LeMenager with TNT Electric Sign Group

RECOMMENDATION: Staff recommends the Planning Commission:

1. Adopt Resolution No. 2020-___ to approve Accessory Sign Application (ASR 20-006) to amend the previously approved 7-Eleven Sign Program to increase the height and sign area of two (2) monument signs, subject to the Conditions of Approval, and Findings of Fact; and
2. Direct Staff to file a Notice of Exemption with the County Clerk of the Board.

ENVIRONMENTAL REVIEW: Amendment of the Sign Program & installation of the proposed signs is Categorically Exempt from environmental proceedings pursuant to

Approved _____	Motion _____	Second _____	Agenda Item No. <u>2</u>
Denied _____	Ayes _____		
Continued _____	Noes _____		File No. _____
Tabled _____	Abstain _____		
	Absent _____		
<i>[Signature]</i> Recording Secretary		<i>[Signature]</i> Community Development Director	

Section 15311, Class No. 11 (Accessory Structures). The placement of a monument sign qualifies as a construction or placement of minor structures accessory to (appurtenant to) an existing commercial, industrial, or institutional facilities, including: (a) On-premise signs. Staff recommends the Planning Commission direct Staff to file a Notice of Exemption with the County Clerk of the Board of Supervisors.

PUBLIC NOTICE: As required by City Council Resolution, notice of the public meeting was posted at the City's three (3) designated posting locations. In addition, the notice was posted on the City's website, and mailed to property owners within 300 feet of the project site. No further notice is required.

PREVIOUS ACTION: On August 21, 2018, the Planning Commission adopted Resolution No. 2018-012, approving Conditional Use Permit No. 17-002, Design Review Application No. 17-005, Accessory Sign Review No. 18-011, and Tentative Parcel Map No. 19824 for the construction of a 3,100 square-foot 7-Eleven Convenience Store with a six-pump fueling station with canopy, sign program, parking, landscaping, and off-site improvements on 1.41 acre portion of an approximate 3.82 acre site.

On November 3, 2020, the Planning Commission held a public hearing on this item to amend the sign program. The Commission continued the item with a vote of 4-0 to December 1, 2020. The action gave the Applicant additional time to research the onsite constraints and finalize the design.

On December 1, 2020, Planning Commission meeting was cancelled, and as a result this item was moved to the December 15, 2020.

PROJECT REVIEW: The project proposes to amend the previously approved Sign Program, Accessory Sign Review (ASR 18-011), by increasing the height of the existing monument sign from 10'-6" to 17' and 11', increase the overall sign area from 96 to 106 square feet, and relocate Monument Sign B. Both signs display the 7-Eleven corporate logo, gas pricing and three future tenant panels.

Monument Sign A is proposed to increase in height by six (6) inches and in width by seven (7) inches. Its adjusted overall height would be 11 foot tall by 12 foot wide with a 106 square foot sign area, which enlarges its sign area by 10 square feet. Sign A would remain at its original location on the east side of the main entrance along Greenspot Road.

Monument Sign B is proposed to be relocated and increase in height by five (5) feet and in width by seven (7) inches. Its adjusted overall height would be 17 foot tall by 12 foot wide (with a six (6) foot high base) with an overall sign area of 106 square foot.

The Applicant proposed to move Monument Sign B from its original location near the southerly Boulder Avenue driveway to a more northerly location and increase its height "significantly". The Applicant stated that it was necessary to move this sign north because there were conflicts with on-site utilities. The Planning Commission continued the

November 3, 2020 public hearing, and asked Staff to work with the Applicant to identify these conflicts and review alternative solutions.

Since that time, the Applicant determined that there were no utility conflicts. As a result, Staff recommends the Planning Commission deny the relocation of Monument Sign B and limit its enlargement to an additional six (6) inches tall and seven (7) inches wide, to match the proposed Sign A along Greenspot Road. This recommendation is reflected in Planning Condition of Approval No. 4.

CONCLUSION: As conditioned, the proposed signs will assist in identifying the 7-Eleven store, gas prices, and the future tenants of the retail building. These signs will direct patrons of this business to the most direct access point into the development. Installation of these monument signs will not conflict with other street frontage signs nor contribute to an overabundance of signs along the street. Therefore, staff recommends the Planning Commission approve Accessory Sign Review Application (ASR) No. 20-006, subject to the Conditions of Approval and Findings of Fact.

Exhibits:

- A. Previously Approved Monument Sign - 2018
- B. Proposed Monument Sign (Sign Package Under Separate Cover)

Attachments:

- 1. Previously Approved Sign Package - 2018 (Under Separate Cover)
- 2. Resolution No. 2020-_____

Exhibit “A”

Previously Approved Monument Sign (As Part of the Previously Approved Sign Program)

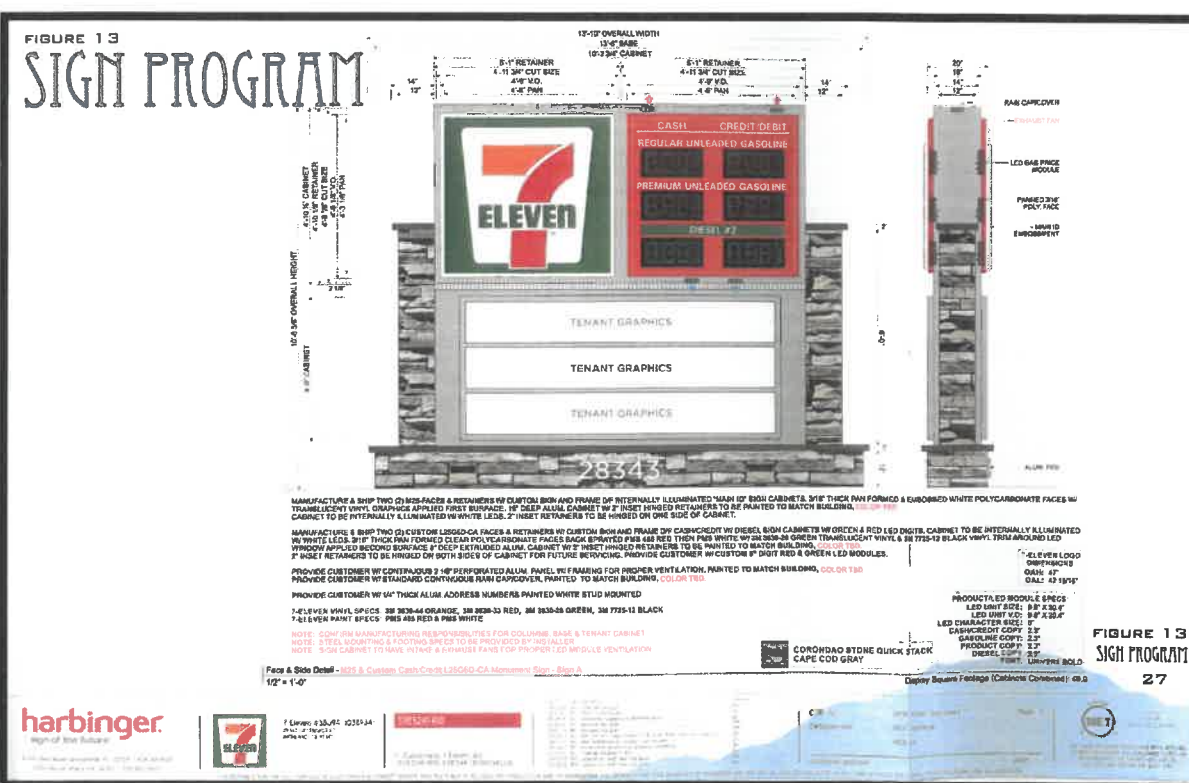
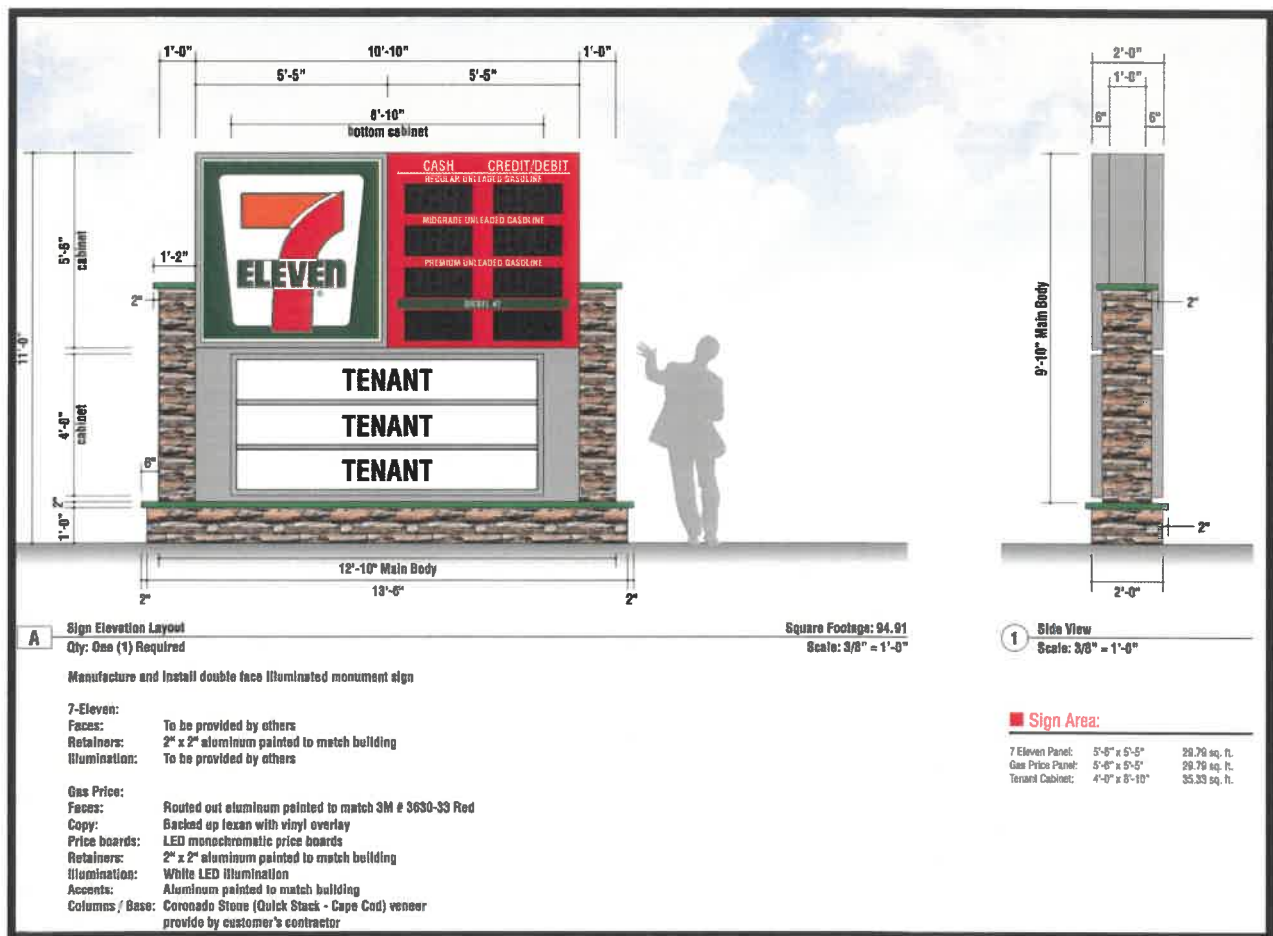


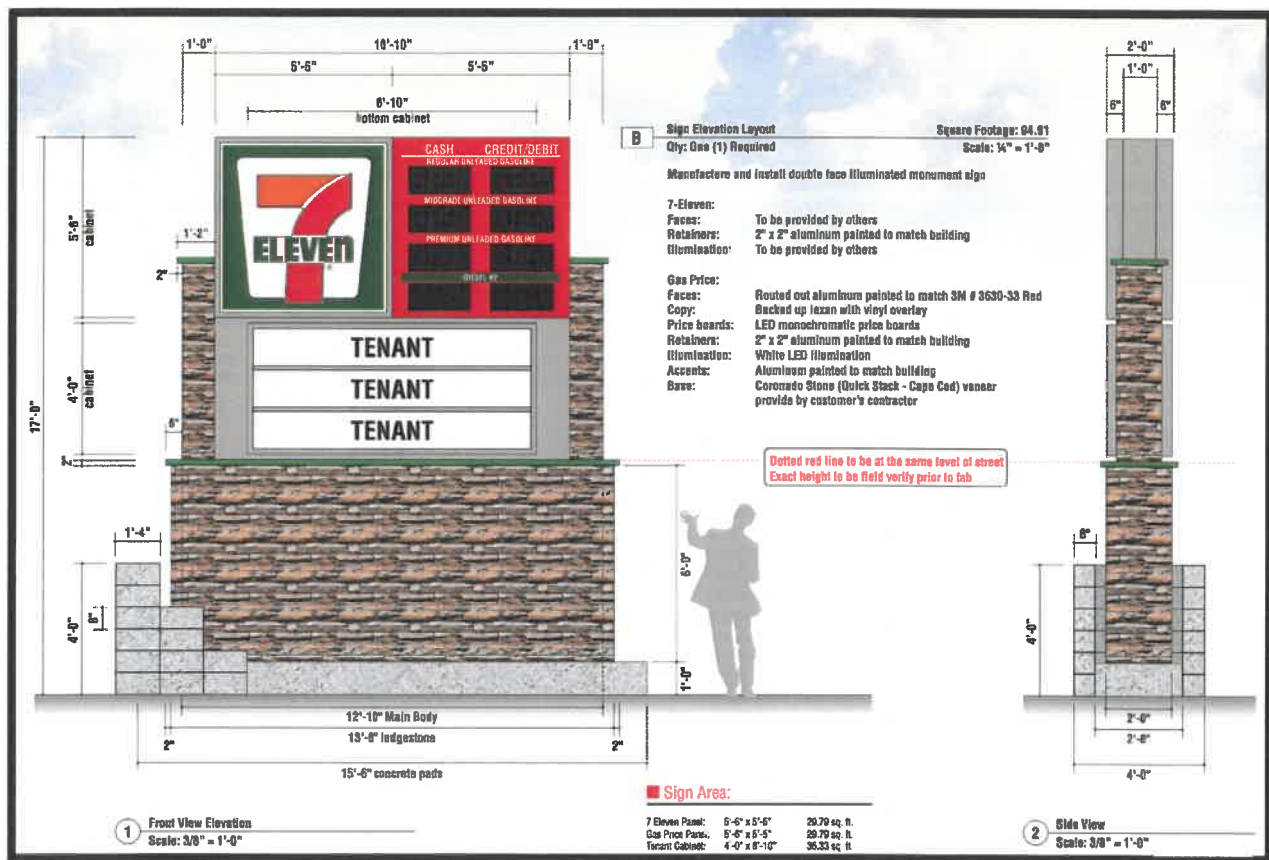
Exhibit “B”

Proposed Monument Signs Along Greenspot Road and Boulder Avenue (Propose Sign Package Under Separate Cover)

Proposed Monument Sign A Along Greenspot Road



Proposed Monument Sign B along Boulder Avenue

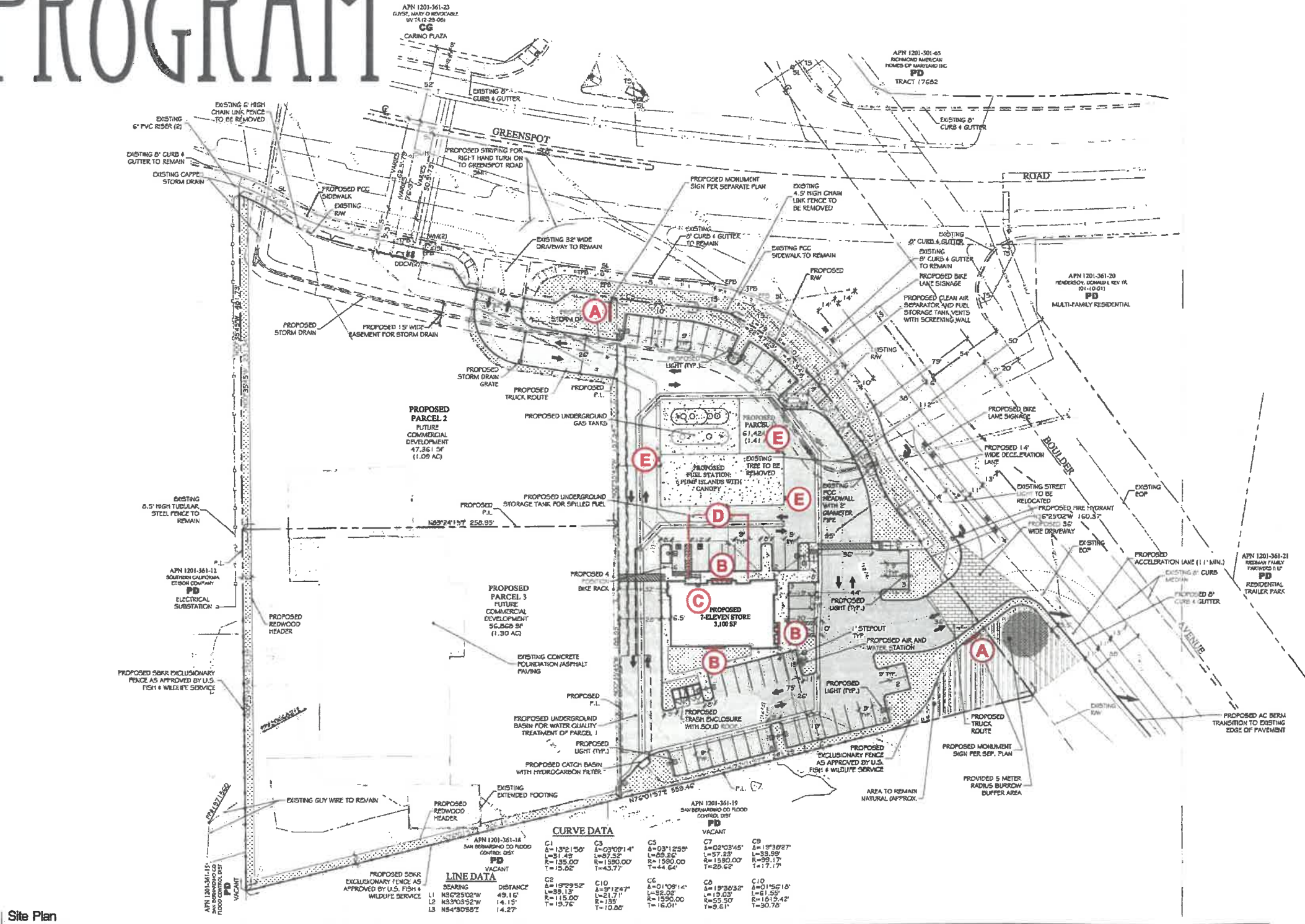


Attachment No. 1

Previously Approved Sign Package (Under Separate Cover)

FIGURE 13

SIGN PROGRAM



- (A) Custom M25 Monument Signs
- (B) 36" Channel Letters
- (C) ATM Interior Sign
- (D) Window Graphics
- (E) W2 Canopy Signs

Site Plan
1"= 80'-0"

FIGURE 13
SIGN PROGRAM
26

harbinger.
sign of the future

5300 Shad Road, Jacksonville, FL 32257 • 904.268.4681
2301 Ohio Dr. Plano, TX. 32257 • 972.905.9450



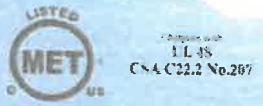
7-Eleven #38094 (1038934)
28343 GREENSPOT RD
HIGHLAND, CA 92346

SVE5241-R10

F:\Customers\7 Eleven\Art
SVE5241-R10 #38094 (1038934).cdr

date	rev	description	designer
05.07.16	00	Original Concept	VS
07.13.16	01	New Pylon Design	VS
07.26.16	02	Customer supplied monument design	gh
10.26.16	03	Revised site plan	mh
02.07.17	04	Revised site plan	gh
04.04.17	05	Add stone to new elevations & monument base and columns	gh
04.17.17	06	new elevations & canopy color as well	gh
05.08.17	07	monument locations to previous locations	gh
07.13.17	08	Change wording in Art	gh
09.05.17	09	Change art with new site plan	gh
05.02.18	10	Update art with new site plan	gh

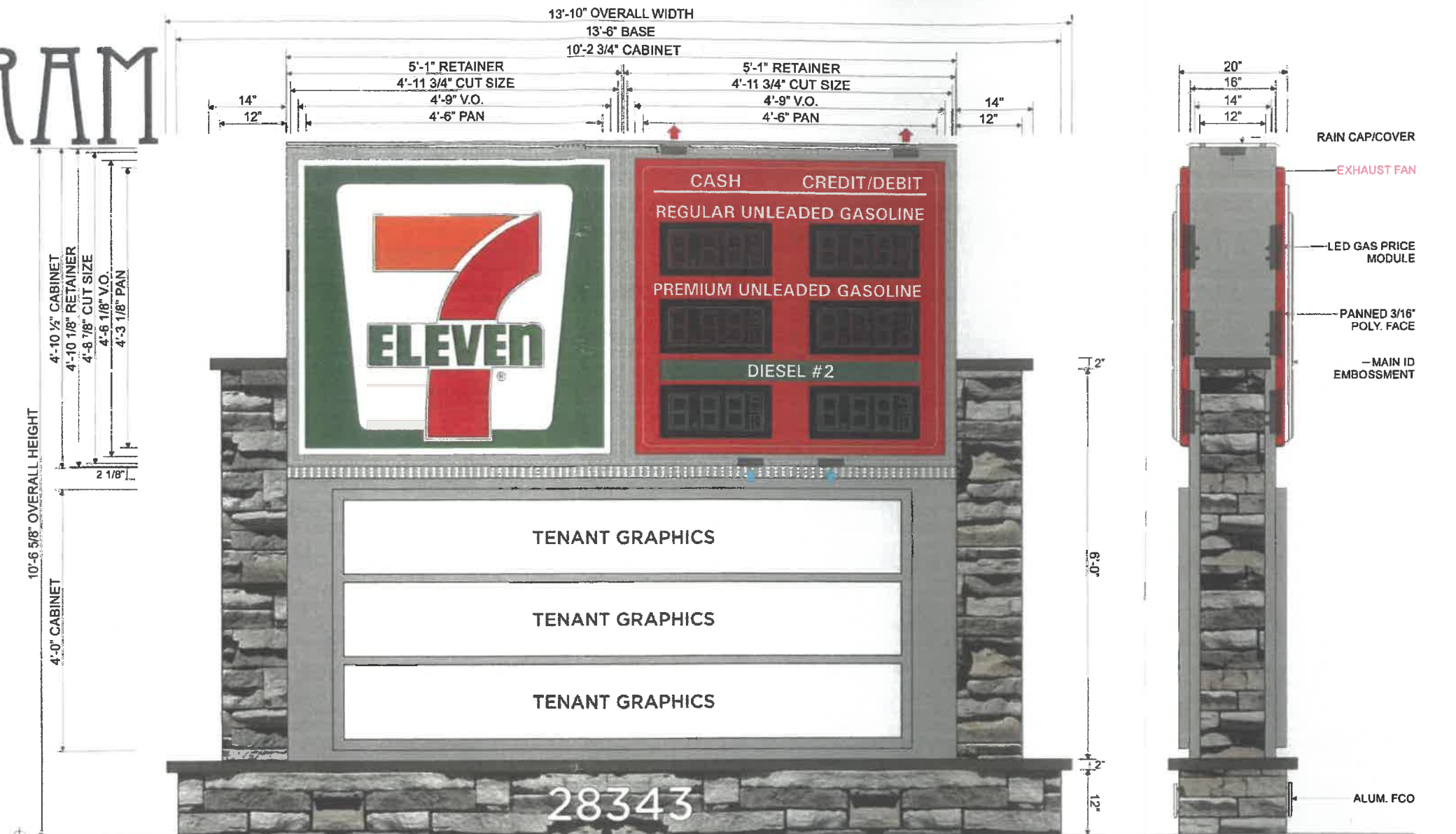
CDF: ho
Designer: bw
customer approval
DPM: Peter Gonzalez
RCC: Vertical
RER: uk
date:



THE SIGNS ON THESE PAGES HAVE BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES OR REQUIREMENTS OF THE NEC 708 AND OR THE 2010 EBC AND OR THE 2007 SBC

FIGURE 13

SIGN PROGRAM



MANUFACTURE & SHIP TWO (2) M25-FACES & RETAINERS W/ CUSTOM SKIN AND FRAME D/F INTERNALLY ILLUMINATED "MAIN ID" SIGN CABINETS. 3/16" THICK PAN FORMED & EMBOSSED WHITE POLYCARBONATE FACES W/ TRANSLUCENT VINYL GRAPHICS APPLIED FIRST SURFACE. 16" DEEP ALUM. CABINET W/ 2" INSET HINGED RETAINERS TO BE PAINTED TO MATCH BUILDING, **COLOR TBD**. CABINET TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS. 2" INSET RETAINERS TO BE HINGED ON ONE SIDE OF CABINET.

MANUFACTURE & SHIP TWO (2) CUSTOM L25G6D-CA FACES & RETAINERS W/ CUSTOM SKIN AND FRAME D/F CASH/CREDIT W/ DIESEL SIGN CABINETS W/ GREEN & RED LED DIGITS. CABINET TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS. 3/16" THICK PAN FORMED CLEAR POLYCARBONATE FACES BACK SPRAYED PMS 485 RED THEN PMS WHITE W/ 3M 3630-26 GREEN TRANSLUCENT VINYL & 3M 7725-12 BLACK VINYL TRIM AROUND LED WINDOW APPLIED SECOND SURFACE. 8" DEEP EXTRUDED ALUM. CABINET W/ 2" INSET HINGED RETAINERS TO BE PAINTED TO MATCH BUILDING, **COLOR TBD**. 2" INSET RETAINERS TO BE HINGED ON BOTH SIDES OF CABINET FOR FUTURE SERVICING. PROVIDE CUSTOMER W/ CUSTOM 6" DIGIT RED & GREEN LED MODULES.

PROVIDE CUSTOMER W/ CONTINUOUS 2 1/8" PERFORATED ALUM. PANEL W/ FRAMING FOR PROPER VENTILATION, PAINTED TO MATCH BUILDING, **COLOR TBD**. PROVIDE CUSTOMER W/ STANDARD CONTINUOUS RAIN CAP/COVER, PAINTED TO MATCH BUILDING, **COLOR TBD**.

PROVIDE CUSTOMER W/ 1/4" THICK ALUM. ADDRESS NUMBERS PAINTED WHITE STUD MOUNTED

7-ELEVEN VINYL SPECS: 3M 3630-44 ORANGE, 3M 3630-33 RED, 3M 3630-26 GREEN, 3M 7725-12 BLACK
7-ELEVEN PAINT SPECS: PMS 485 RED & PMS WHITE

NOTE: CONFIRM MANUFACTURING RESPONSIBILITIES FOR COLUMNS, BASE & TENANT CABINET
NOTE: STEEL MOUNTING & FOOTING SPECS TO BE PROVIDED BY INSTALLER
NOTE: SIGN CABINET TO HAVE INTAKE & EXHAUST FANS FOR PROPER LED MODULE VENTILATION.

7-ELEVEN LOGO
DIMENSIONS:
OAH: 47"
OAL: 42 15/16"

PRODUCT/LED MODULE SPECS:
LED UNIT SIZE: 9.8" X 20.4"
LED UNIT V.O.: 9.8" X 20.4"
LED CHARACTER SIZE: 6"
CASH/CREDIT COPY: 2.3"
GASOLINE COPY: 2.3"
PRODUCT COPY: 2.3"
DIESEL COPY: 2.3"
FONT: UNIVERS BOLD

CORONDAO STONE QUICK STACK
CAPE COD GRAY

Face & Side Detail - M25 & Custom Cash/Credit L25G6D-CA Monument Sign - Sign A
1/2" = 1'-0"

Display Square Footage (Cabinets Combined): 49.8

FIGURE 13
SIGN PROGRAM

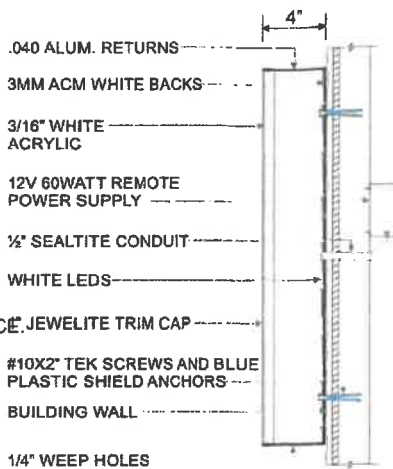




THREE (3) SETS OF 36\"/>

7-ELEVEN VINYL SPECS: 3M 3630-44 ORANGE, 3M 3630-33 RED, 3M 3630-26 GREEN

Front Elevation & Side Mounting Detail - Standard 36\"/>



Display Square Footage: 46.1

FIGURE 13

SIGN PROGRAM

Square footage Calculations:

Allowed: 1 sqft per 1 ft of lease space
NTE 70% of bld width and NTE 24\"/>

Allowed:	72.0 sqft
Proposed:	69.5 sqft

Allowable Sign Letter Height:

Allowed:	24"
Proposed:	24"



Overlay (North Elevation) - Signs B, D & E

1/8" = 1'-0"

FIGURE 13
SIGN PROGRAM
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7-Eleven #38094 (1038934)
28343 GREENSPOT RD
HIGHLAND, CA 92346

SVE5241-R10

F:\Customers\7 Eleven\Art
(SVE5241-R10 #38094 (1038934) cdr

date	rev	description	designer
06.07.16	00	Original Concept	lv
07.13.16	01	New Pylon Design	lv
07.26.16	02	Customer supplied monument design	gh
12.02.16	03	Revised site plan	mh
02.07.17	04	Revised site plan	gh
04.04.17	05	Add stone to new elevations & monument base and columns	gh
04.17.17	06	new elevations & canopy color, as well	gh
05.08.17	07	monument locations to previous locations	gh
07.13.17	08	Change wording in R1	bw
09.05.17	09	Update art with new site plan	bw
09.02.18	10	Update art with new site plan	bw

CDR: ho
Designer: bw

DPM: Peter Gonzalez
RCC: Vertical
RER: lk

Page: 3

customer approval

date:



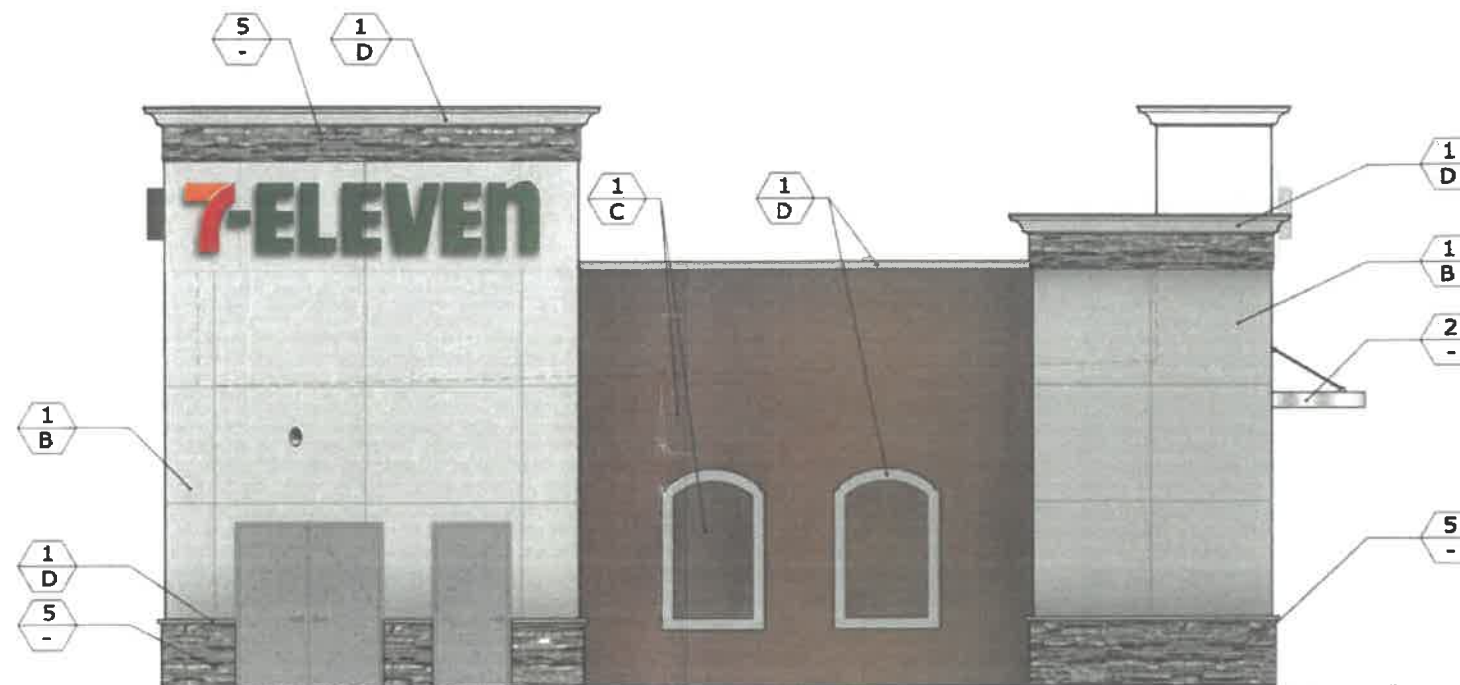
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CSA C22.2 No.207

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FIGURE 13

SIGN PROGRAM



Overlay (East Elevation) - Sign B

1/8" = 1'-0"

FIGURE 13
SIGN PROGRAM
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28313 GREENSPOT RD
MIDLAND, CA 92056

SVE5241-R10

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SVE5241-R10 #38094 (1038934).cdr

date	rev.	description	designer
06.07.16	00	Original Concept	vs
07.13.16	R1	New Pyron Design	vs
07.26.16	R2	customer supplied monument design	gh
12.02.16	R3	Revised site plan	mh
02.07.17	R4	Revised site plan	mh
04.04.17	R5	Add stone to new elevations & monument base and columns	gh
04.17.17	R6	new elevations & canopy color as well	gh
05.08.17	R7	monument locations to previous locations	gh
07.13.17	R8	Change wording in Art	bw
09.05.17	R9	Update art with new site plan	bw
05.02.18	R10	Update art with new site plan	bw

CDR: ho
Designer: bw

DPM: Peter Gonzalez
RCC: Vertical
RER: uk

Page: 4

customer approval

date:



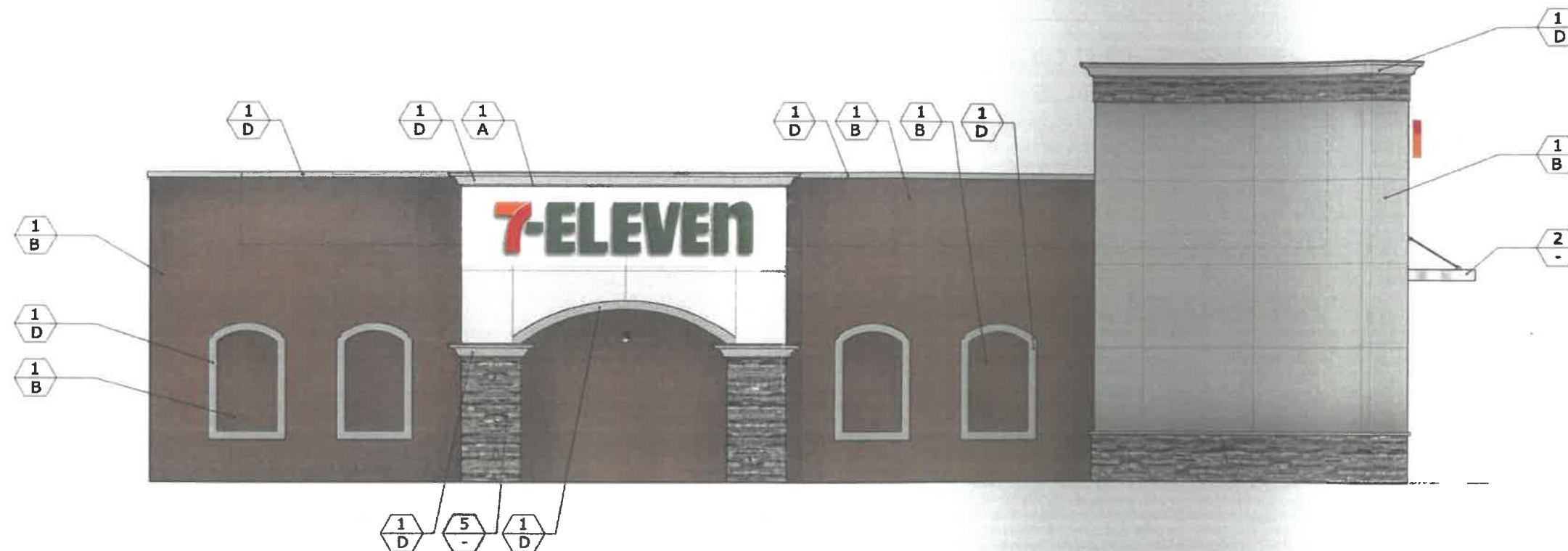
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FIGURE 13

SIGN PROGRAM



Overlay (South Elevation) - Sign B
1/8"= 1'-0"

FIGURE 13
SIGN PROGRAM
30

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HIGHLAND, CA 92346

SVE5241-R10

F:\Customers\7 Eleven\Art
SVE5241-R10 #38094 (1038934).cdr

date	rev	description
06.07.19	00	Original Concept
07.13.16	R1	New Pylon Design
07.26.16	R2	Customer supplied monument design
12.02.16	R3	Revised site plan
02.07.17	R4	Revised site plan
04.04.17	R5	Add stone to new elevations & monument base and columns
04.17.17	R6	new elevations & canopy color as well
05.05.17	R7	monument locations to previous locations
07.13.17	R8	Change wording in Art
09.05.17	R9	Update art with new site plan
09.07.18	R10	Update art with new site plan

CDR: ho
Designer: bw

DPM: Peter Gonzalez
RCC: vertical
RER: uk

Page: 5

customer approval

date:



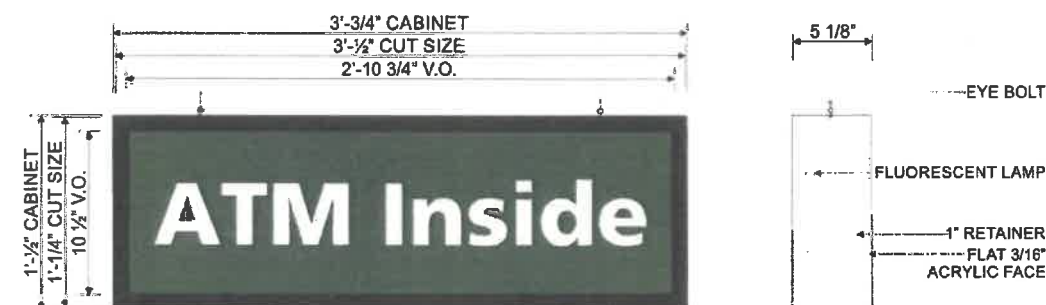
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FIGURE 13

SIGN PROGRAM



INSTALL ONE (1) **STANDARD** INTERNALLY ILLUMINATED S/F WINDOW SIGN. 3/16" THICK FLAT WHITE ACRYLIC FACE W/TRANSLUCENT VINYL GRAPHICS APPLIED FIRST SURFACE. CABINET TO BE INTERNALLY ILLUMINATED W/ T-8 H.O. FLUORESCENT LAMPS. 5 1/8" DEEP ALUM. CABINET & 1" RETAINERS ALL PAINTED **BLACK**. SIGN TO HANG INSIDE THE STORE BEHIND GLASS AS INDICATED IN PHOTO OVERLAY WITH EYE BOLTS.

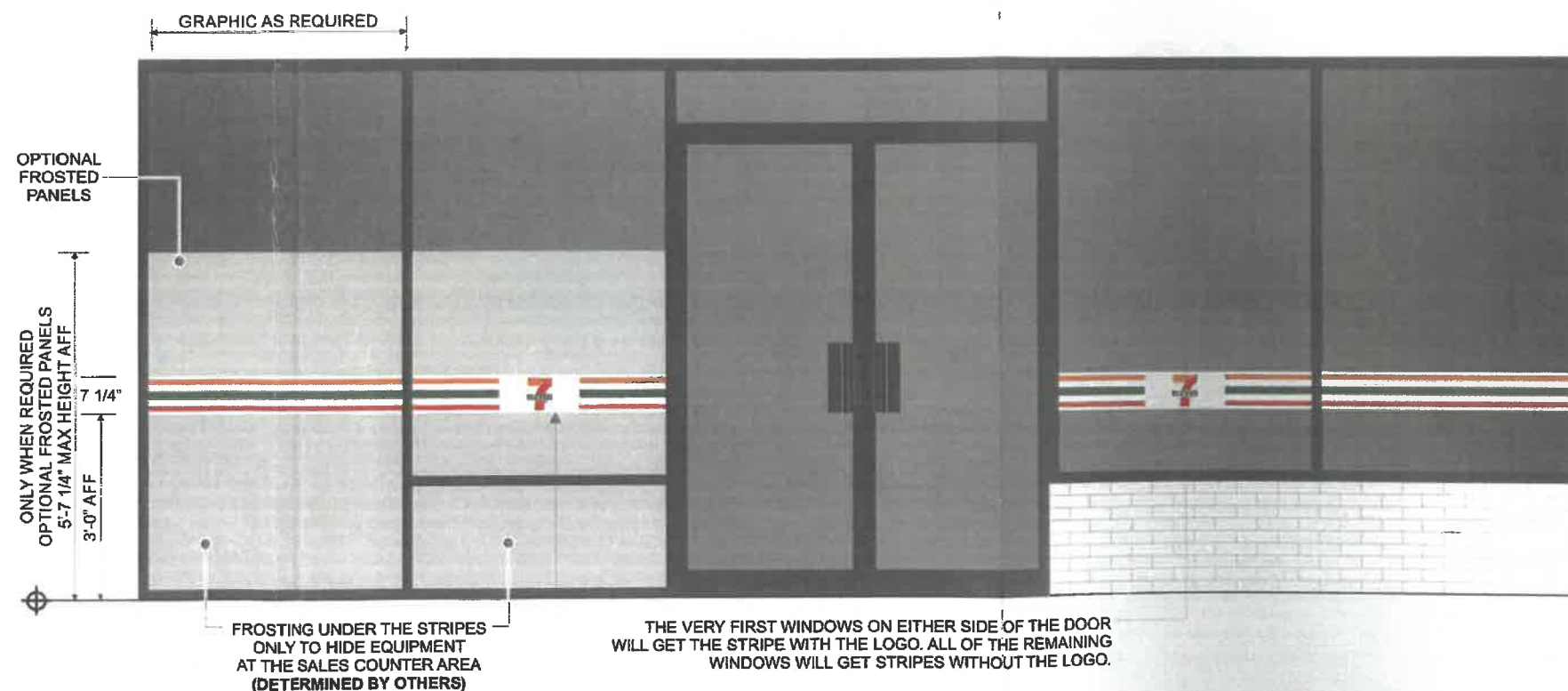
VINYL SPECS: 3M 3630-26 GREEN

NOTE: ATM SIGN TO BE FABRICATED & PROVIDED BY OTHERS!

Front Elevation & Side Mounting Detail - **Standard ATM S/F Window Sign - Sign C**

1" = 1'-0"

Display Square Footage (Cabinet): 3.2



WINDOW VINYL GRAPHICS.

VINYL GRAPHICS TO BE APPLIED SECOND SURFACE ONTO DESIGNATED STORE WINDOWS.

NOTE: WINDOW GRAPHICS KITS TO BE PROVIDED AND INSTALLED BY OTHERS. NOT PART OF HARBINGERS SCOPE OF WORK.

NOTE: FOR FULL INSTALLATION INSTRUCTIONS, REFER TO 7-ELEVEN SIGNAGE MANUAL.

Front Elevation - **Typical Window Vinyl Graphics - Sign D**

3/8" = 1'-0"

FIGURE 13
SIGN PROGRAM

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SVE5241-R10

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(SVE5241-R10 #38094 (1038934).cdr

date	rev	description	designer
06.07.16	00	Original Concept	vs
07.13.16	R1	New Pylon Design	vs
07.26.16	R2	Customer supplied monument design	gh
12.02.16	R3	Revised site plan	mb
02.07.17	R4	Revised site plan	mb
04.04.17	R5	Add stone to new elevations & monument base and columns	gh
04.17.17	R6	new elevations & canopy color as well	gh
05.08.17	R7	monument locations to previous locations	gh
07.13.17	R8	Change wording in Art	bw
09.05.17	R9	Update art with new site plan	bw
05.02.18	R10	Update art with new site plan	bw

CDR: ho

Designer: bw

DPM: Peter Gonzalez

RCC: Vertical

RER: uk

customer approval

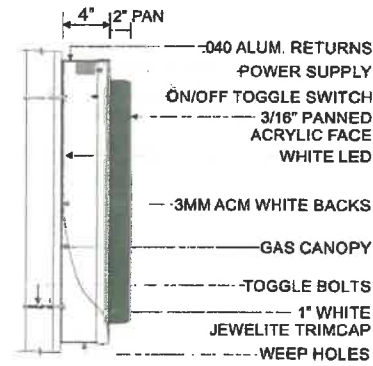
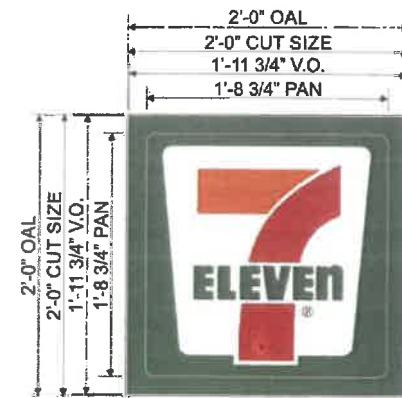
Page: 6



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MANUFACTURE & SHIP THREE (3) W2X2CANOPY (00000000) S/F INTERNALLY ILLUMINATED SIGN CABINETS. 3/16" THICK PAN FORMED WHITE ACRYLIC FACE W/ TRANSLUCENT VINYL GRAPHICS APPLIED FIRST SURFACE. 4" DEEP ALUM. RETURNS TO BE PAINTED PMS WHITE LOW GLOSS. 1" WHITE (JEWELITE) TRIM CAP. CABINET TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS.

NOTE: SIGN TO BE INSTALLED 2'-0" FROM LEFT EDGE OF GAS CANOPY.

NOTE: ACCOMPANYING TRI-STRIPE GRAPHICS (BY OTHERS) TO BEGIN 2'-0" FROM CABINET

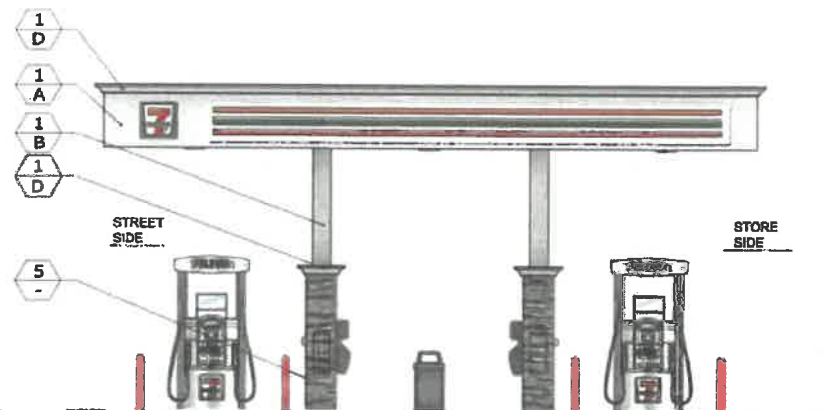
7-ELEVEN VINYL SPECS: 3M 3630-44 ORANGE, 3M 3630-33 RED, 3M 3630-26 GREEN

7-ELEVEN LOGO
DIMENSIONS:
OAH: 18 11/16"
OAL: 17 15/16"

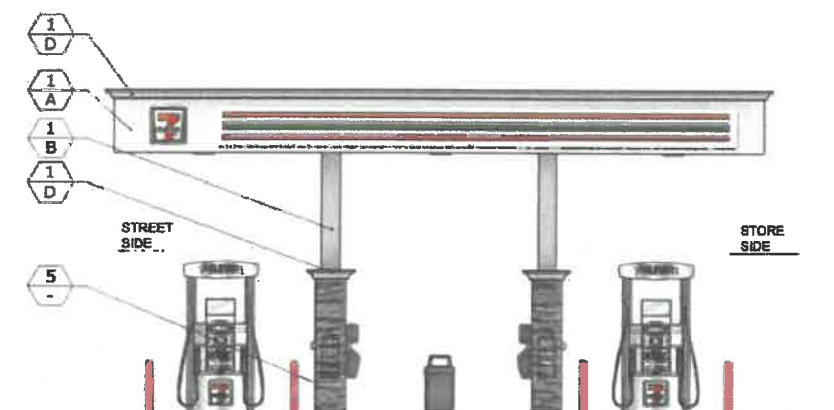
Front Elevation & Side Mounting Detail - W2X2CANOPY (00000000) Canopy Cabinet - Sign Type E

3/4" = 1'-0"

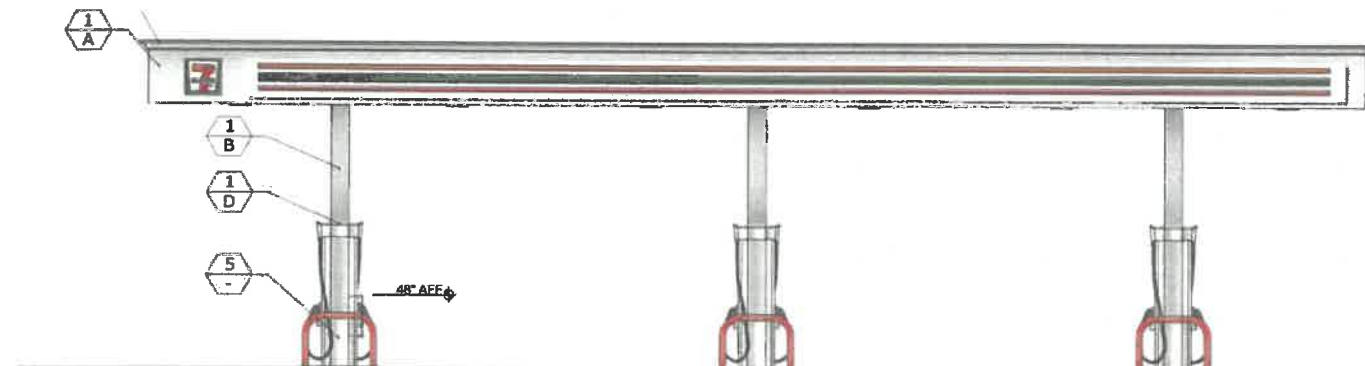
Display Square Footage (Cabinet): 4.0 Each



PROPOSED WEST ELEVATION: 4.0 SQFT



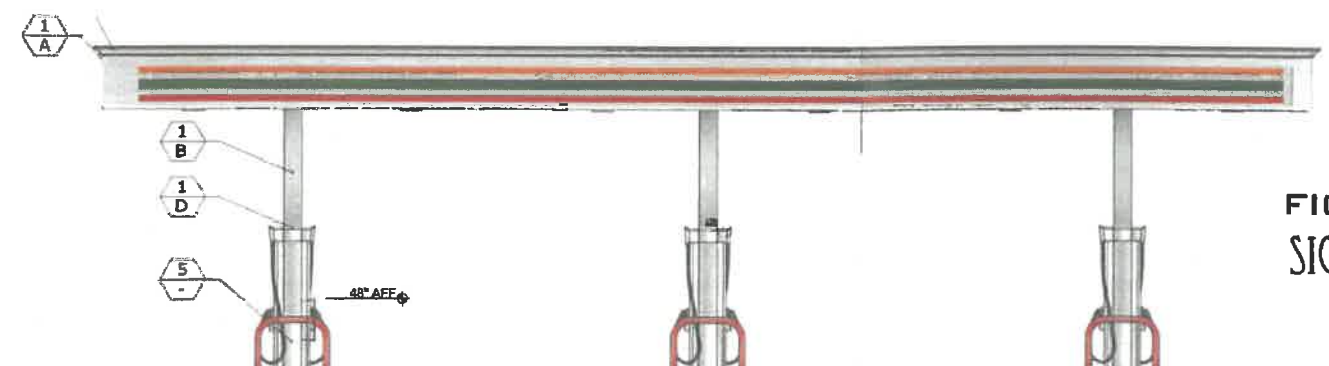
PROPOSED EAST ELEVATION: 4.0 SQFT



PROPOSED NORTH ELEVATION: 4.0 SQFT

Canopy Overlay - Sign Type E

1/16" = 1'-0"

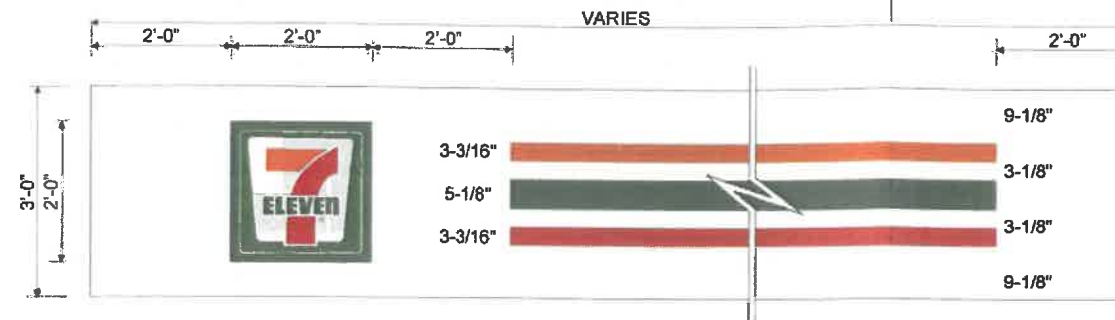


PROPOSED SOUTH ELEVATION: 0 SQFT

FIGURE 1 B

SIGN PROGRAM

Allowable Sign Letter Height:	
Allowed:	24"
Proposed:	24"



Front Elevation & Side Detail - Sign Type E

3/4" = 1'-0"

FIGURE 1 B

SIGN PROGRAM

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HIGHLAND, CA 92346

SVE5241-R10

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SVE5241-R10 #38094 (1038934).cdr

date: res: description: designed:
06.07.10 00 Original Concept VS
07.13.10 R1 New Python Design VS
07.26.10 R2 Customer supplied monument design gh
12.02.10 R3 Revised site plan gh
02.07.11 R4 Revised site plan gh
04.04.11 R5 Add stone to new elevations & monument base and columns gh
04.17.11 R6 new elevations & canopy color as well gh
05.08.11 R7 monument locations to previous locations gh
07.13.11 R8 Change wording in Art gh
08.05.11 R9 Update art with new site plan gh
05.07.15 R10 Update art with new site plan gh

CDR: ho
Designer: bw

DPM: Peter Gonzalez
RCC: Vertical
RER: uk

Page: 7

customer approval

date:



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Attachment No. 2

Resolution No. 2020 - _____

RESOLUTION NO. 2020-_____

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HIGHLAND, CALIFORNIA, APPROVING ACCESSORY SIGN REVIEW NO. 20-006, AN AMENDMENT TO THE 7-ELEVEN SIGN PROGRAM PREVIOUSLY APPROVED BY THE HIGHLAND PLANNING COMMISSION ON AUGUST 21, 2018 BY RESOLUTION NO. 2018-012. TO INCREASE THE HEIGHT AND THE OVERALL SIGN AREA OF TWO MONUMENT SIGNS. THE SITE IS LOCATED AT 28359 GREENSPOT ROAD (APN: 1201-361-28, -29, & -30).

OWNER: BOULDER HOLDINGS, LLC, JIAN TORKAN

A. RECITALS

1. On August 21, 2018, the Planning Commission approved Resolution No. 2018-012, Conditional Use Permit No. 17-002, Design Review Application No. 17-005, Accessory Sign Review No. 18-011, and Tentative Parcel Map No. 19824 for the construction of a 3,100 square-foot 7-Eleven Convenience Store (with a Type 20 Alcohol Beverage License) with a six-pump fueling station with canopy, sign program, parking, landscaping, and off-site improvements on 1.41 acre portion of an approximate 3.82 acre site.
2. On July 14, 2020, the Applicant submitted an Accessory Sign Review Application (ASR No. 20-006) to amend ASR No. 18-011 to increase the height and the overall sign area of two future monument signs.
3. On November 3, 2020, the Planning Commission continue this item to the December 1, 2020, Planning Commission Meeting to allow the Applicant to allow additional time to finalize the on-site constraints and final design.
4. On December 1, 2020, Planning Commission meeting was cancelled, and the item was moved to the December 15, 2020, Planning Commission meeting.
4. The two (2) monument signs will be located along Greenspot Road (Monument Sign A) and Boulder Avenue (Monument Sign B) within the project site landscape area.
5. On December 15, 2020, the Planning Commission of the City of Highland, conducted a Public Meeting on the subject Application and concluded the Meeting on that date.
6. All legal prerequisites to the adoption of this Resolution have occurred.

B. RESOLUTION

NOW THEREFORE, it is hereby found, determined and resolved by the Planning Commission of the City of Highland as follows:

- Section 1. The Planning Commission finds that all of the facts set forth in the Recitals, Part "A" of this Resolution, are true and correct.

Section 2. Based upon substantial evidence presented to the Planning Commission during the December 15, 2020, Public Meetings, including public testimony and written and oral Staff Reports, the Planning Commission finds as follows:

- a. All necessary public meetings and opportunities for public testimony and comment have been conducted in compliance with State Law and the Municipal Code of the City of Highland.

Section 3. Findings of Fact (Accessory Sign Review Application)

- a. The Signs allowed by the comprehensive sign program will not adversely affect other nearby properties.

Response: Based on the review of the surrounding development, the amended sign program will not adversely affect nearby properties such as Carino Plaza, Highland Crossings, Highland Crossroads, Glenrose Ranch and other commercial and residential developments. The proposed double-sided monument signs have been conditioned by staff to ensure that the sign will not have any adverse impact on the health safety and welfare of the surrounding community. The propose signs are reflective of the size, height, quantity, placement, location and materials of those located in the vicinity.

- b. The comprehensive sign program is consistent with the General Plan and the Highland Municipal Code.

Response: The comprehensive sign program is consistent with the City of Highland General Plan, Community Design Element, specifically Goal 10.11 to "Promote attractive, appropriately scaled and well-coordinated signs." The proposed monument signs are modern in materials and compliment the future buildings by using polycarbonate faces, metal trims, and rock veneer. The overall size of the signs, and their copy area are in scale with the size of the site and proportional to the street frontages of Greenspot Road and Boulder Avenue.

- c. The comprehensive sign program achieves the purpose of the City of Highland Land Use and Development Code, Chapter 16.56 (Sign Regulations).

Response: The intent of Chapter 16.56.180 (Comprehensive Sign Program) is to integrate its signs with the overall design of the site and provide a unified architectural statement. Signs programs are meant to provide the means for flexible application of signs regulations so long as it continues to reflect the purpose of the guidelines. The amendment to the previously approved sign program meets or significantly exceeds the standards of the code. The exceptions are two monuments signs, Monument Sign A is approximately one foot taller and 10 square-foot larger than the previously approved sign face but it's meets the overall height of 11 feet and Monument Sign B is six (6) feet taller and 10 square-foot larger than the permitted sign face because it will be installed on a 2:1 slope (landscape area) along Boulder Avenue. As a result of not having a utility constrain on the property, staff will be conditioning Monument Sign B to

be 11 foot high by 12 foot wide with 106 square foot sign area and be located at the south side of the Boulder Avenue driveway approach (previously approved location).

- d. It will not constitute the granting of a special privilege nor provide more visibility or exposure than is available to similarly situated properties.

Response: The proposed amendment to the previously approved sign program will not constitute a granting of a special privilege. It meets almost all Code standards for non-program signage. The deviations are in keeping with the size, height, number, and overall theme of signage in the area. Additionally, the proposed double-sided monument signs are similar to the signs in the nearby shopping center.

Section 4. Based on the Findings and Conclusions set forth above, the Planning Commission Approves Resolution No. 2020- ____ for Accessory Sign Review (ASR) No. 20-006 to amend the 7-Eleven Sign Program previously approved by the Highland Planning Commission on August 21, 2018. The new proposal would increase the height and the overall sign area of two future monument signs. The signs identify the 7-Eleven gas station and future tenants along Greenspot Road and Boulder Avenue, subject to the Conditions of Approval (Conditions of Approval and Sign Plan attached).

C. ADOPTION OF RESOLUTION.

The City Clerk shall certify to the adoption of this Resolution and shall cause the same to be published or posted in the manner prescribed by law.

PASSED, APPROVED AND ADOPTED this 15th day of December, 2020.

ATTEST:

Randall Hamerly, Chairman
Planning Commission

Lawrence A. Mainez
Community Development Director

CITY OF HIGHLAND
Planning Commission

PLANNING DIVISION CONDITIONS OF APPROVAL

Date: December 15, 2020
Applicant: Warner Lemenager, TNT Electric Sign Company
File/Index: Accessory Sign Review (ASR) No. 20-006
Proposal: The Applicant is requesting to amend the 7-Eleven Sign Program previously approved by the Highland Planning Commission on August 21, 2018. The new proposal would increase the height and the overall sign area of two future monument signs. The signs identify the 7-Eleven gas station and future tenants along Greenspot Road and Boulder Avenue.
Location: 28359 Greenspot Road, (APN: 1201-361-28, -29, & -30)

PLANNING CONDITIONS OF APPROVAL

Note: These Conditions represent Planning Division Conditions only and are meant to be only one part of the Project's overall Conditions that may include Engineering, Fire Department and Building and Safety Conditions of Approval. All required on-site and off-site improvements shall be completed and approved prior to final inspection for occupancy, except where noted.

Accessory Sign Review Application (ASR) No. 20-006 is conditionally approved, subject to compliance with the requirements as specified below. The Conditions listed below are continuing Conditions; failure of the Applicant and/or operator to comply with any / all Conditions at any time shall result in initiating revocation of the subject permit.

1. This Accessory Sign Review Application shall become null and void:
 - a. Unless all Conditions have been complied with and the occupancy or use of the land or existing structures authorized by such Sign Review has taken place within twelve (12) months after the approval of said Sign Review.
 - b. Where circumstances beyond the control of the Applicant causes delays which do not permit compliance with the time limitation established in this Section, the reviewing authority may grant an Extension of Time for a period of time not to exceed an additional twelve (12) months. Applications for such Extension of Time must be set forth, in writing; the reasons for this Extension shall be filed together with a fee, as established by the City Council, with the Planning Division thirty (30) calendar days before the expiration of the Planning Commission approval.
2. In compliance with City Ordinance, the Applicant shall agree to defend, at the Applicant's sole expense, any action brought against the City, its agents, officers, or

employees, because if the issuance of such approval. The Applicant shall reimburse the City, its agents, officers, or employees for any court costs and attorney's fees, which the City, its agents, officers, or employees may be required by a court to pay as a result of such action. The City may, at its sole discretion, participate at his own expense in the defense of any such action, but such participation shall not relieve Applicant of his obligations under this Condition.

3. Monument Sign A shall be 11-foot by 12-foot wide with a 106 square-foot overall sign area, located along Greenspot Road as identified on the Planning Commission approved site plan.
4. Monument Sign B shall be 11-foot tall by 12-foot wide, with 106 square feet of overall sign area and shall be located on the south side of the driveway approach along Boulder Avenue.
5. The design and finish of this sign shall be consistent with plan presented and approved by the Planning Commission.
6. The landscape planter area around the sign shall be maintained in good condition, in compliance with the approved conceptual landscape plan at all times.
7. Revisions, modifications, or deletions of this Plan must be submitted to the Planning Division and/or approving authority for review and approval. Revisions may require additional review by the Planning Commission.
8. Obtain appropriate installation permits from the Building and Safety Division for proposed monument signs prior to the installation.
9. The Building and Safety Conditions are attached for your reference.
10. The Conditions of Approval under Planning Commission Resolution No. 2018-012 (CUP No. 17-002, DRA No. 17-005, ASR No. 18-011, TPM No. 19824) shall continue to apply.



STAFF REPORT

TO THE PLANNING COMMISSION

DATE: December 15, 2020

FROM: Lawrence A. Mainez, Community Development Director

SUBJECT: City of Highland Active Transportation Plan (ATP); a comprehensive plan for the network of trails, bike lanes, sidewalks, and other elements to support safe walking and bicycling in the City.

LOCATION: City-wide

REPRESENTATIVES: Samuel Zneimer, Senior Planner, Alta Planning+Design, Inc.
Julia Lippe-Klein, Acting Program Manager, SCAG

RECOMMENDATION: Staff recommends the Planning Commission:

- 1) Adopt Resolution No. 2020 – ____, recommending the City Council approve and adopt the City of Highland Active Transportation Plan, and direct Staff to file a Notice of Exemption with the County Clerk of the Board.

FISCAL IMPACT: The City of Highland Active Transportation Plan (ATP) document is fully funded by the Southern California Association of Governments (SCAG) Regional Council as part of their Southern California Disadvantaged Communities Planning Initiative (no local funding match required). There is no significant impacts to the City's General Fund related to the drafting of the subject ATP and only Staff time was spent working closely with the SCAG representatives related to data collection, review of draft documents, assistance with public outreach efforts, and general project oversight.

ENVIRONMENTAL REVIEW: The Highland Active Transportation Plan meets the definition of a "Feasibility or Planning Study" under the California Code of Regulations (CEQA Guidelines), Article 18, Statutory Exemptions, Section 15262, and therefore exempt from environmental proceedings under the California Environmental Quality Act (CEQA).

Approved _____	Motion _____	Second _____	Agenda Item No. <u>3</u>
Denied _____	Ayes _____		File No. _____
	Noes _____		
Continue _____	Abstain _____		
	Absent _____		
 Recording Secretary		 Community Development Director	

PUBLIC NOTICE: As required by City Council Resolution, the Agenda was posted at the City's three (3) designated posting locations within the City. In addition, the Agenda was posted on the City's Website, and interested Agencies and Property Owners notified via mail. Also, the ATP project was consistently advertised on the City's website ("take a look" pop-up) with a link to www.highlandATPlan.com. No further notice is required.

PUBLIC COMMENT: Following the time of preparing this Staff Report no comments were received in response to the Notice of Public Hearing. As outlined in the draft ATP Section 5 (Community Collaboration), engaging the community was a top priority throughout the planning process which included the creation of a Community Advisory Committee, public events, on-line surveys, open house walking tours, an interactive mapping tool posted on the City's webpage, and a virtual Town Hall meeting held on October 13, 2020. These events were highlighted on Facebook (with nearly 16,000 followers) and Nextdoor (with over 34,500 followers). Comments received were considered and addressed in the draft ATP.

BACKGROUND: In January 2019, the Southern California Association of Governments (SCAG) formally launched the Disadvantaged Communities Active Transportation Planning Initiative to help improve safety, health, and access throughout the region by making active transportation plans and its implementation more accessible. To that end, the Initiative provides technical assistance to develop a low-cost, high-impact Active Transportation Planning "Model/Template" and Outreach Resources to cities with limited resources. Once adopted, the Active Transportation Plans are considered the effective planning tool to help a local and regional agency access program funding.

As part of SCAG's efforts, they retained the services of Alta Planning+Design firm to develop an Active Transportation Plan "Model/Template" in seven (7) cities throughout SCAG's six (6) County region. SCAG worked with its partner agencies to narrow down its participation of seven cities in their Disadvantaged Communities Active Transportation Planning Initiative, and they selected the City of Highland as one of the cities.

PROJECT REVIEW: The subject ATP provides a comprehensive guideline for a network of bike lanes, sidewalks, crossing improvements, and other elements aimed at supporting safe walking and bicycling throughout the City, and providing connection to nearby destinations.

The Plan implements the vision set forth in the Highland General Plan (the City's long-range comprehensive planning document) and includes a comprehensive network of active transportation facilities to improve bicycle and pedestrian commuting and recreation opportunities throughout the City. This network will connect users to neighborhoods, parks, recreational open spaces, schools, places of interest, and will provide connectivity to the hiking and bike systems of adjacent cities and regional systems. In other words, the subject ATP will provide a blueprint for a future Highland where walking and biking is a safer and more convenient way to get around.

The Plan includes funding strategies and a phasing schedule for development of the active transportation network. Once the City's ATP is adopted, the City will proceed to seek funding and grant opportunities, such as the California Active Transportation Program fund, in order to implement the City's adopted ATP.

As noted in the Public Comment section above, the ATP planning process included many community participation events intended to obtain input from residents, public agency stakeholders, and other community members.

Representatives from SCAG's consultant – Alta-Planning+Design Inc. will be available during the Planning Commission hearing to provide a detailed overview of the draft ATP.

The draft ATP is attached for Planning Commission review and consideration (see Attachment 1).

Staff recommends the Planning Commission provide comments on the draft ATP as appropriate and if no significant changes are made approve the attached resolution recommending the City Council adopt the ATP (see Attachment 2).

- Attachments:
1. Draft Highland Active Transportation Plan
(dated November 2020)
 2. Planning Commission Resolution 2020 – _____

Attachment 1



City of Highland

Active Transportation Plan

December 2020



Acknowledgements

Thank you to the residents, community leaders, community-based organizations, agencies, and other stakeholders who have helped shape this Plan. We appreciate your vision, insights, and commitment to improving mobility and access for all residents.

COMMUNITY ADVISORY COMMITTEE

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Inland Empire Biking Alliance



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Executive Summary

The 2020 Active Transportation Plan (“Plan”) represents a new commitment by the City of Highland to walking and biking. It is part of a move away from the auto-centric, inequitable approach of the past, and toward a sustainable, multi-modal transportation system that serves all residents, regardless of age, ability, identity, or income.

VISION: This Plan aims to make walking and bicycling more comfortable, convenient, and accessible for people of all ages and abilities throughout the city.

The Plan also introduces a comprehensive collection of programs and policies. Among the elements of the Plan are several innovations in active transportation planning for Highland. The Plan includes an implementation strategy that details the sequencing and priorities for the selection and installation of new pedestrian and bicycle facilities.

Collectively, the various strategies and components of the Plan assist the City to meet the four goals that have been established by this Plan: increase safety and health; improve access and comfort; reduce household transportation costs; and identify, develop, and maintain a complete and comfortable active transportation network. The Plan was created through intensive collaboration between various city departments, the Community Advisory Committee (CAC), community organizations, local schools, and most importantly, our residents. The Plan reflects best practices from cities around the country; it is the product of extensive public input, research, and detailed field work. Collectively the policies, programs, projects, and recommendations in this Plan will create an environment that increases, improves and enhances active transportation in the City of Highland, and makes walking and biking a safe, healthy, and enjoyable means of transportation and recreation.

GOALS & OBJECTIVES

The Plan is guided by an Equity Framework which prioritizes equity and the needs of vulnerable residents. **Equity, in this planning process, means that community members who have historically been left out of transportation investments and decisions will be prioritized, engaged, and included.**

Collectively, the various strategies and components of the Plan assist the City of Highland to meet the four goals established by this Plan, each of which is rooted in advancing our Equity Framework:



1. Improve Safety & Health



2. Improve Access & Comfort



3. Enhance Transportation Affordability



4. Commit to Maintain & Expand the Network



Safety & Health

- A. Reduce bicycle and pedestrian collisions through safe and comfortable facilities
- B. Promote an active lifestyle that includes walking and biking
- C. Reduce air pollution, asthma rates, and greenhouse gas emissions
- D. Reduce travel times for low-income households



Access & Comfort

- A. Increase access to jobs, education, retail, parks and libraries, schools, recreational centers, transit, and other neighborhood destinations
- B. Address barriers so that vulnerable populations can take part in the improvements
- C. Support public transit service
- D. Prioritize the needs and trip patterns of vulnerable populations
- E. Prioritize universal design standards



Affordability

- A. Reduce the overall household transportation costs for all residents, both anticipated and existing

•

- B. Reduce long-term transportation costs by reducing the need for vehicle ownership or for parking in new developments



Maintain & Expand the Network

- A. Integrate bicycle and pedestrian network and facility needs into all Highland planning documents and capital improvement projects
- B. Leverage existing funding to maximize project delivery
- C. Maintain designated facilities to be comfortable and free of hazards to biking and walking

COMMUNITY PRIORITIES

Community and stakeholder participation played a central role in shaping the project, from workshops and pop-up events to community surveys, and events with the local community. During this planning process, community members expressed support for:

- Improving pedestrian and bike facilities throughout the city.
- Strengthen and promote regional connectivity.
- Safer and comfortable walking and biking routes near schools.

Similarly, community members also shared many concerns that guided the recommendations in this Plan, including:

- Poor condition of pavement in the eastern part of the City of Highland, which presents hazardous conditions for walking, biking, and driving.
- Most routes to schools don't have the infrastructure to walk and/or bike safely to school.



City Staff out in the field helping shape this Plan, and who are committed to improving access, safety, and health for all.

OUR COMMUNITY'S NEW APPROACH

The Plan was created through intensive collaboration between various city departments, the Community Advisory Committee (CAC), community organizations, and most importantly, our residents. Using this feedback and analysis of existing conditions, collisions, and demographic data, the Plan designates an ambitious active transportation system and introduces a comprehensive collection of programs and policies. **Altogether, the recommendations for our streets envision 58 miles of bikeways and sidewalks, and represent an investment in multi-modal, equitable transportation in our community.** The street recommendations provide new, low-stress connections between schools, downtown, and community parks, helping ensure that people can more comfortably and safely access everyday needs.

The recommended programs work to address key community concerns, and include Safe Routes to School (SRTS) efforts; safety campaigns and roadway users alike, so that all of our community members can be responsible for safe travel behaviors.

Collectively the policies, programs, projects, and recommendations in this Plan will create an environment that enhances active transportation in the City of Highland, and makes walking and biking a safe, healthy, and enjoyable means of transportation and recreation.



The Plan envisions an active transportation network that improves access, health, and quality of life for all of our residents.

Bicycle Facility Types



CLASS I

Shared-Use Path

- Paths completely separated from motor vehicle traffic used by people walking and biking.
- Comfortable for people of all ages and abilities.
- Typically located immediately adjacent and parallel to a roadway or in its own independent right-of-way, such as within a park or along a body of water.



CLASS II

Bicycle Lane

- A dedicated lane for bicycle travel adjacent to traffic.
- A painted white line separates the bicycle lane from motor vehicle traffic.



CLASS IIB

Buffered Bicycle Lane

- A dedicated lane for bicycle travel separated from vehicle traffic by a painted buffer.
- The buffer provides additional comfort for users by providing space from motor vehicles or parked cars.



CLASS III

Bicycle Route

- A signed bike routes that people biking share with motor vehicles.
- Can include pavement markings.
- Comfortable facility for more confident bicyclists.
- Recommended when space for a bike lane may not be feasible.

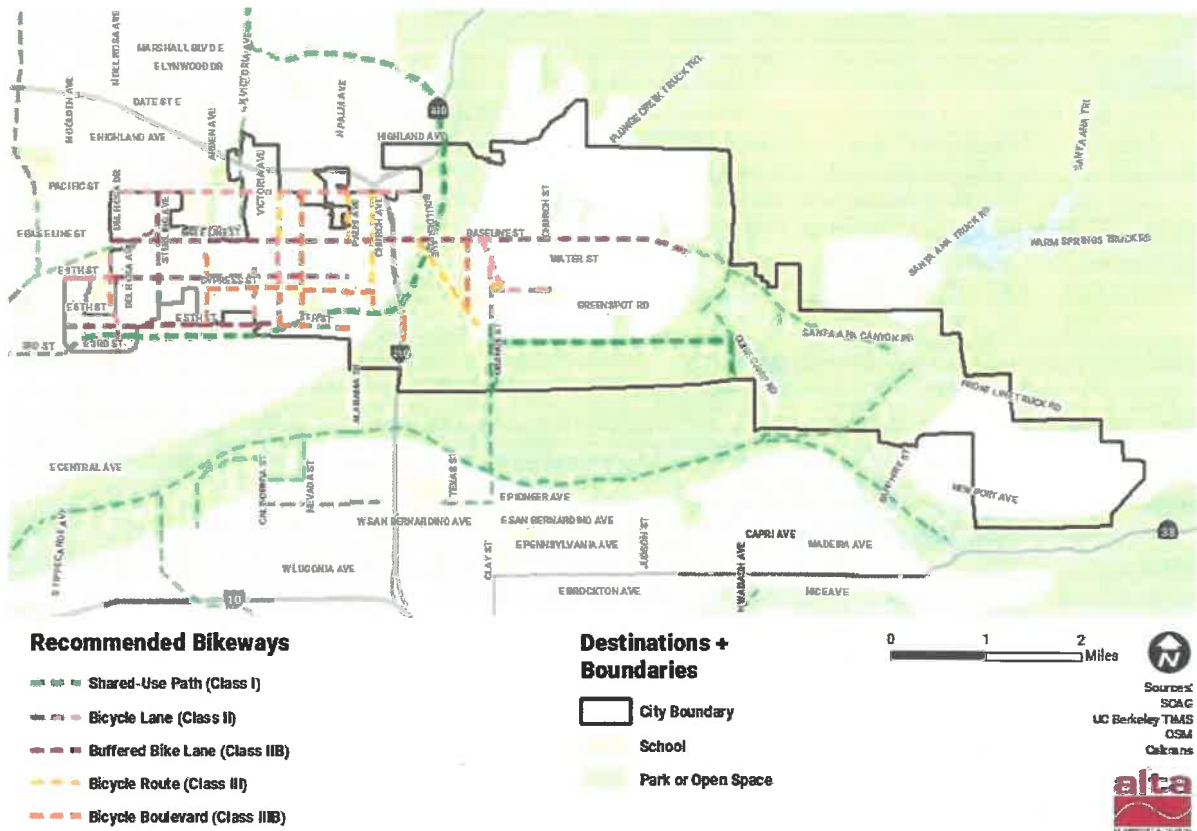


CLASS IIIB

Bicycle Boulevard

- Calm, local streets where bicyclists have priority but share roadway space with motor vehicles.
- Shared roadway bicycle markings on the pavement as well as traffic calming features such as speed humps and traffic diverters to keep these streets more comfortable for bicyclists.
- Comfortable facility for bicyclists with wider range of abilities.

Recommended Bicycle Network



Pedestrian Facility Types



Sidewalks & Paths

- Completely separated from motor vehicle traffic
- Used by people walking or using mobility devices such as wheelchairs.
- Sidewalks are typically located immediately adjacent and parallel to a roadway. Shared-use paths can be located in their own independent right-of-way, such as within a park or along a body of water.



Crossing Facilities

- Make crossing the street at intersections and midblock safer and more comfortable.
- High-visibility crosswalk markings are more visible to approaching vehicles and have been shown to improve yielding behavior.
- Advance yield markings, or "shark teeth," warn drivers they are approaching a crosswalk.



Curb Treatments

- Curb ramps allow users of all abilities to make the transition from the street to the sidewalk. They are required by the Americans with Disabilities Act (ADA) at all crosswalks, including those that are unmarked.
- Curb extensions create safer and shorter crossings for pedestrians. They can help slow vehicle traffic by visually narrowing the roadway. They also increase the available space for street furniture, plantings, and street trees.



Beacons & Signals

- Beacons and signals both indicate to drivers that someone may be crossing the street.
- Make crossing the street safer and more comfortable.
- Pedestrian countdown signals create a more predictable crossing environment and give adequate warning to pedestrians attempting to cross a roadway.
- Leading pedestrian intervals allow a pedestrian to begin crossing the street before the traffic signal turns green.



Traffic Calming

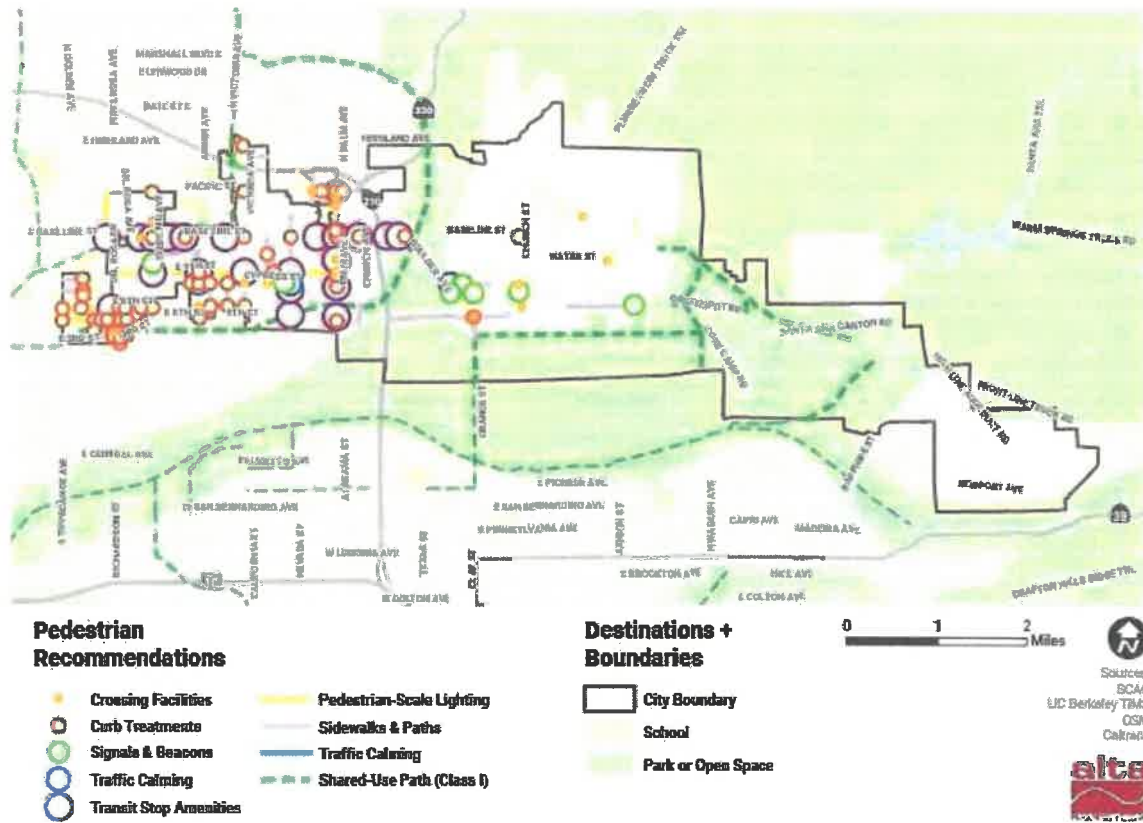
- Encourage drivers to travel at slower speeds
- Some treatments alter the configuration of a roadway, while others change how drivers perceive and respond to a street
- Can be used at targeted locations such as a dangerous intersection, or along corridors.



Pedestrian-scale Lighting

- Improves visibility for people walking, as opposed to street lights intended to light the roadway.
- Additional care and emphasis on pedestrian lighting should be taken at and near crosswalks.

Recommended Pedestrian Projects

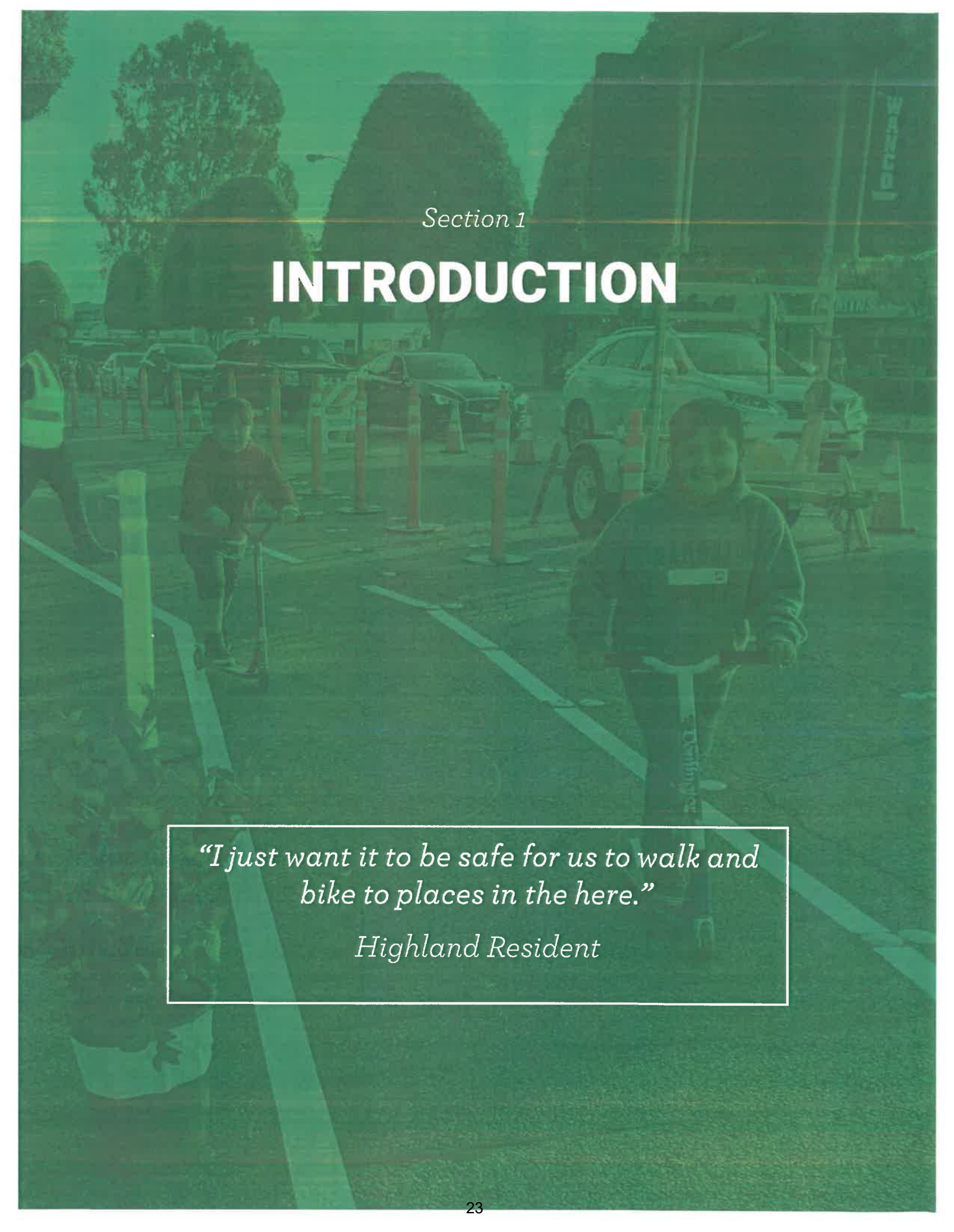


MAKING THIS VISION A REALITY

Following the implementation strategy outlined in Chapter 8, the City will work to secure funding for high-priority projects and programs, with the hopes of expanding our network by 15% by 2025. As the City of Highland works to implement the Plan, we will continue to engage with our residents and, most importantly, follow the Equity Framework to ensure that the most vulnerable members of the community voice is heard and the needs are met.



This Plan sets the City of Highland on track to expand walking and biking routes by over 55 miles.

A green-tinted photograph of a street scene. In the foreground, two young children are riding scooters towards the camera. The child on the right is wearing a dark hoodie and dark pants, while the child on the left is wearing a red shirt and dark pants. They are riding on a paved street with white lane markings. In the background, there are orange and white striped construction barriers, a white car, and a person in a high-visibility vest. A sign for 'WALCO' is visible on the right side of the image. The overall scene suggests a focus on child safety and traffic management.

Section 1

INTRODUCTION

*“I just want it to be safe for us to walk and
bike to places in the here.”*

Highland Resident

1. Introduction

THE NEED FOR AN ACTIVE TRANSPORTATION PLAN

Highland is committed to improving the quality of life for residents and visitors by ensuring walking and biking are convenient, comfortable, and healthy modes of transportation and recreation. This Active Transportation Plan establishes a long-term vision for improving walking and biking in Highland. The Plan is a critical tool for guiding city staff and the development community in building a balanced transportation system that encourages biking and walking. The ultimate goal is shifting more automobile trips to walking and biking as a normal part of daily life.



Our community aims to build an active transportation network that improves mobility options for all of our residents.



BENEFITS OF WALKING, BIKING, AND BEING ACTIVE

Collision Reduction

Conflicts between people walking, biking, and driving can result not just from poor behavior, but from insufficient or ineffective design. Encouraging development that supports biking and walking can enhance safety and comfort for all users. Bike lanes and physical barriers between bicyclists and motor vehicle traffic have been shown to increase individuals' use of bicycle infrastructure.¹ Shaded sidewalks with landscaped buffers from vehicle traffic and curb ramps, high-visibility crossings, and rest areas similarly create comfortable experiences for people walking. However, existing transportation networks

¹ Hoffman et al. *Bicycle commuter injury prevention: it is time to focus on the environment*. 2010.; Pucher et al., *Infrastructure, programs, and policies to increase bicycling: An international review*. 2010.



Providing safe and accessible facilities is a priority in our community.

are often designed primarily for safe and efficient motor vehicle travel. Most roadways poorly protect bicyclists and pedestrians, making them more vulnerable to injury and, in some cases, death. Non-motorists are more likely to suffer injury or death in a collision and are about 1.5 times more likely than motorists to die when getting around.²

There are many ways to improve safety for bicyclists and pedestrians while maintaining an efficient transportation system for motor vehicle travel. Successful bicycle and pedestrian improvements on existing facilities tend to focus on changing traffic volume and speed³ and increasing the separation from vehicles.⁴ Additional methods include the design of smarter multi-modal streets, reduced vehicle/bike or vehicle/pedestrian conflict zones, enhanced visibility, and requiring new facility design standards that consider bike/pedestrian safety as a top priority.

This Plan outlines an active transportation network and programmatic changes to help us reduce collisions, improve traffic safety, and protect the historically marginalized members of our community.



Public Health Improvements

Physical inactivity is now widely understood to play a significant role in the most common chronic diseases in the United States, including heart disease, stroke, and diabetes. Each year, approximately 280,000 adults in the United States die prematurely due to obesity-related illnesses. A 2004 study published in the American Journal of Preventive Medicine by Frank et al. reported that for each additional 60 minutes spent in a car daily, one's chance of becoming obese increases by six percent. A

² Beck et al. *Motor vehicle crash injury rates by mode of travel, United States: using exposure-based methods to quantify differences*. 2007; Centers for Disease Control and Prevention. *Motor Vehicle Crash Deaths in Metropolitan Areas — United States, 2009. Morbidity and Mortality Weekly Report*. 2012.

³ Harris et al. *The Bicyclists' Injuries and the Cycling Environment study: a protocol to tackle methodological issues facing studies of bicycling safety*. 2011; Miranda -Moreno et al. *The link between built environment, pedestrian activity and pedestrian-vehicle collision occurrence at signalized intersections*. 2011.

⁴ Lusk et al. *Risk of injury for bicycling on cycle tracks versus in the street*. 2011.

2019 report by the Outdoor Foundation found that Americans are spending less time outdoors: Nearly half of the U.S. population doesn't participate in any outdoor recreation at all, and only 17.9% got out at least once a week in 2018. The result? One billion fewer hikes, climbs, rides, and other outdoor excursions in 2018 than in 2008. The report also found an alarming impact on youth: Children took part in 15% fewer outdoor activities in 2018 than they did six years before.⁵ However, walking and biking is highly impacted by people's ability, or rather inability, to access safe places to do so. Studies demonstrate disparities in the quantity and quality of park spaces between low-income and affluent communities.

Creating infrastructure that encourages biking and walking—while improving access to parks or active recreation opportunities for all residents—is a key strategy to fighting obesity and inactivity. Better yet, it has been shown to have substantial benefits on public health with relatively minimal public investment. Biking and walking can help improve mental health, facilitate social connections, encourage activity among older adults, foster healthy habits among youth, lower risk of chronic diseases, and improve air quality. The World Health Organization identified atmospheric particulate matter (PM) with a diameter of less than 2.5 micrometers (PM2.5), ozone (O3), and oxides of nitrogen (NOx), all of which are related to automobile emissions, as the primary pollutants of concern for environmental and human health.⁶ These pollutants have both short- and long-term effects on



Walking helps to improve mental health, foster social connections, and lower the risk of chronic diseases.

⁵ Outdoor Foundation. 2019 Outdoor Participation Report. 29 January 2019.

https://outdoorindustry.org/resource/2019-outdoor-participation-report/?utm_source=media&utm_medium=press-release&utm_campaign=participation

⁶ World Health Organization. Review of Evidence on Health Aspects of Air Pollution: REVIHAAP Project. Copenhagen, Denmark: WHO Regional Office for Europe; 2013.

respiratory health, cardiovascular health, cancer, reproductive health, and premature mortality in humans.⁷ Further, there is increasing evidence that links these emissions to increased systematic inflammation and diabetes risk.⁸ Nitrogen dioxide from motor vehicles was found to cause 60% of pediatric asthma cases in urban areas worldwide.⁹ Poor air quality particularly impacts vulnerable populations such as older adults, youth, and people with respiratory ailments.

Reducing our reliance on motor vehicles and increasing the use of active transportation will help break the cycle of air pollution and the corresponding negative health impacts. Altogether, the Plan will identify interventions that support safe walking, biking, and recreation opportunities as effective strategies for addressing public health concerns in our community.



Environmental Benefits

Fossil-fuel driven **transportation generates the largest share of greenhouse gas (GHG) emissions of any economic sector in the United States, amounting to almost 30% of all GHG emissions and surpassing those generated from electricity production and industry.**¹⁰

Transportation generates the largest share of greenhouse gas (GHG) emissions of any economic sector in the United States: 30%.

Biking and walking cause no direct air or water pollution, require minimal land use impacts, and emit negligible noise and light pollution. Bicyclists and pedestrians occupy less space than cars and help reduce demand for road space and parking, freeing up land for public space, buildings, food production, and housing. Replacing driving trips with biking or

⁷ U.S. Environmental Protection Agency. *Provisional Assessment of Recent Studies on Health Effects of Particulate Matter Exposure*. Washington DC 2012.

⁸ Jerrett M, Brook R, White LF, et al. Ambient ozone and incident diabetes: A prospective analysis in a large cohort of African American women. *Environment International*. 2017;102:42-47.

⁹ Pattanun A, Brauer M, Hystad P, Anenberg S. Global, national, and urban burdens of pediatric asthma incidence attributable to ambient NO₂ pollution: estimates from global datasets. *The Lancet Planetary Health*. 2019.

¹⁰ United States Environmental Protection Agency. *Sources of Greenhouse Gas Emissions*. Accessed May 28, 2019, <https://www.epa.gov/ghgemissions/sources-greenhouse-gas-emissions>.

walking trips reduces emissions associated with mobility, translating into less carbon dioxide, nitrogen oxides, hydrocarbons, and other pollutants in the air.

Implementation of this Plan not only reduces our contribution to climate change, but will also enhance our resilience to it. Creating viable alternatives to private vehicles reduces pressure on road infrastructure and provides options for people to remain mobile when other transportation modes are disrupted by climate events. It will also improve the health of residents who are vulnerable to asthma or other chronic respiratory diseases associated with air pollution.



Equity

Many people in our community, including children, older adults, people with physical disabilities, low-income community members, and those who do not own or have access to a vehicle, rely on walking, biking, and transit to get where they need to go on a daily basis. When age and physical abilities are not a barrier, costs associated with car ownership can still significantly inhibit mobility in car-centric environments. A study cited by the Victoria Transport Policy Institute found that **households in automobile-dependent communities devote 50% more of their income to transportation (more than**



Ensuring everyone has access to safe and affordable transportation options helps improve the wellbeing of our community.

\$8,500 annually) than households in communities with better conditions for walking and biking (less than \$5,500 annually). Indeed, transportation typically accounts for a household's second-largest expenditure behind housing. For low or under-resourced households, however, this high cost of driving can consume a high portion of peoples' incomes and make them transportation burdened. Unsurprisingly, people with low incomes have the highest rates of walking and bicycling to work, with the greatest number of bicycling trips taken by people of color.¹¹

When affordable housing is not located near opportunities for work or school, low-income residents endure longer commutes and incur greater transportation costs. Longer travel distances mean less time spent with family, less time to exercise and rest, and less time for obligations like picking up children from childcare, visiting the doctor, or grocery shopping. Impeding access to these and other basic necessities can have health consequences and exacerbate health inequities.¹²

Active transportation options increase mobility for vulnerable populations, enabling safe, affordable access to economic and social opportunities.

Environmental factors and infrastructure deficiencies also disproportionately affect low-income and minority communities. For example, inadequate walking and biking infrastructure (e.g., missing or broken sidewalks, limited street lighting, lack of marked crosswalks and traffic islands, substandard or no bike lanes, etc.) and perceived safety issues create barriers to walking and biking. Bicyclists and pedestrians in low-income communities and communities

of color have higher injury and fatality rates. In the United States, Latinx and African American bicyclist/pedestrian fatality rates are double that of White Americans.¹³ Children¹⁴ and older adults¹⁵ are

¹¹ Safe Routes to School National Partnership. *At the Intersection of Active Transportation and Equity*. 2015.

¹² PolicyLink Prevention Institute Convergence Partnership. *Healthy, Equitable Transportation Policy: Recommendations and Research*. 2009.

¹³ Safe Routes to School. 2015.

¹⁴ Wong et al. *GIS measured environmental correlates of active school transport: A systematic review of 14 studies*. 2011; Rothman et al. *Walking and child pedestrian injury: a systematic review of built environment correlates of safe walking*. 2014; Rothman et al. *Motor Vehicle-Pedestrian Collisions and Walking to School: The Role of the Built Environment*. 2014.

¹⁵ Lusk et al. *Risk of injury for bicycling on cycle tracks versus in the street*. 2011; Moran et al. *Understanding the relationships between the physical environment and physical activity in older adults: a systematic review of*

especially vulnerable sub-populations whose tendencies to walk and bike are particularly impacted by vehicle traffic speed and volume, as well as available or missing infrastructure that creates safe or unsafe environments. Further, when these populations choose to walk or bike, often times, they are faced with health risks associated with greater air and noise pollution, as many sources of air pollutants are located near these communities,¹⁶ and people with low incomes and people of color are more likely to live near major roads, highways, or truck routes.¹⁷

For older adults, youth, people of color, people with disabilities, and people with low wealth, not having safe, sufficient infrastructure to access destinations by foot or bike means increased vulnerability to traffic related injury and fatalities as well as indirect health implications.¹⁸ Active transportation plans that improve biking and walking provide an opportunity to improve mobility for vulnerable populations who might not own or are unable to operate a motor vehicle, enabling safe, affordable access to economic and social opportunities that are known to predict health later in life.

The Plan will enhance the accessibility of pedestrian and bicycle networks in our community, making daily transportation and physical activity more viable for children, older adults, people of color, and people with physical disabilities. The Plan will be designed to create opportunities for affordable, safe, and convenient transportation for all people, especially those who may not have access to a motor vehicle or who have limited income.



Quality of Life

The design, land use patterns, and transportation systems that comprise the built environment profoundly impact one's experience of being in a community. Creating conditions in which walking, biking, and using other active modes are accepted and encouraged increases a community's livability and sense of connectedness, and by extension, residents' quality of life. Communities become more pleasant when noise and air pollution are reduced, and when urban space is reserved for facilities that enable people of all ages and abilities to travel in safe and enjoyable settings. This Plan works to increase the quality of life for all residents in our community.

qualitative studies. 2014; Yen et al. *How design of places promotes or inhibits mobility of older adults: realist synthesis of 20 years of research.* 2014.

¹⁶ Miranda et al. *Race/Ethnicity, Residential Segregation, and Exposure to Ambient Air Pollution: The Multi-Ethnic Study of Atherosclerosis.* 2014.

¹⁷ Bae et al. *The exposure of disadvantaged populations in freeway air-pollution sheds: a case study of the Seattle and Portland regions.* 2007.

¹⁸ Policy Link Prevention Institute. 2009.



Economic Benefits

Active transportation is economically advantageous to individuals and communities. Replacing automobile trips with walking or biking can reduce vehicle maintenance and fuel costs. These savings are accompanied by potential reductions in health care costs, as regular physical activity can minimize health complications associated with an inactive lifestyle. In 2009, the CDC estimated that the direct medical costs of physical inactivity to the country totaled more than \$147 billion.¹⁹

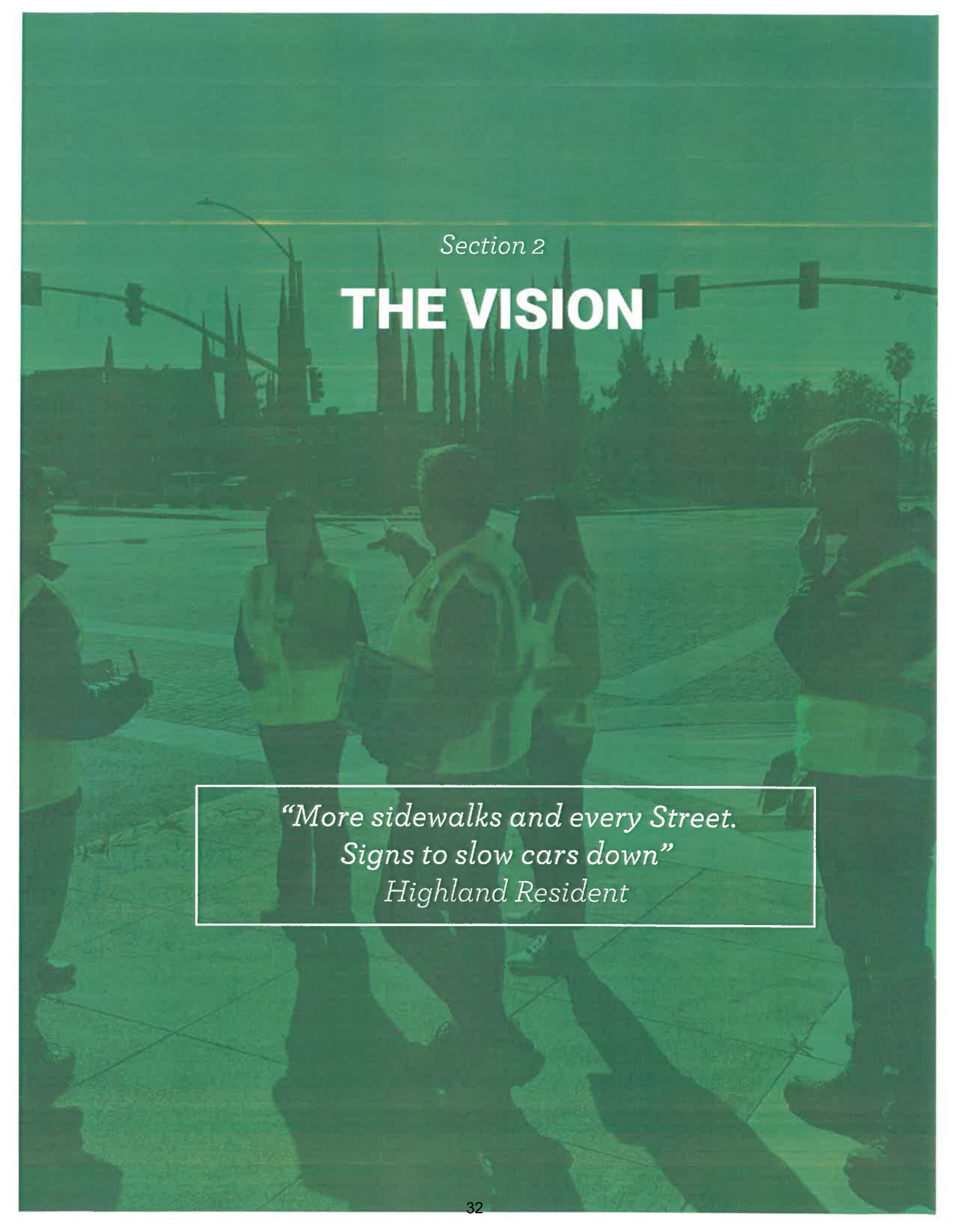
According to the Bureau of Labor Statistics, in 2017, households spent 13% of their earnings on transportation—the second highest household expenditure after housing.²⁰ Increasing opportunities for non-automobile travel can reduce spending on transportation, which may allow for households to increase spending on health-promoting activities such as healthcare, education, and nutritious food.

Furthermore, active transportation facilities require significantly less capital to construct and maintain than roadway or highway projects. **Active transportation investments allow cities to do more with fewer taxpayer dollars.** And in many cases, such projects result in higher spending at local businesses.²¹ This Plan sets Highland on track to help residents spend less on transportation, and our community to do more with our existing resources.

¹⁹ Center for Disease Control and Prevention. *Adult Obesity Causes & Consequences*. Last modified August 29, 2017, <https://www.cdc.gov/obesity/adult/causes.html>.

²⁰ Bureau of Labor Statistics. *Consumer Expenditures—2017*. Published September 11, 2018, <https://www.bls.gov/news.release/cesan.nr0.htm>.

²¹ New York City Department of Transportation. *The Economic Benefits of Sustainable Streets*. 2013.



Section 2

THE VISION

*“More sidewalks and every Street.
Signs to slow cars down”
Highland Resident*

2. The Vision

EQUITY FRAMEWORK

This Plan is guided by an Equity Framework, which asks:

- Who are the most vulnerable groups in the community?
- What outcomes do the most vulnerable residents want to see come from this planning effort?
- How can implementation of the Plan work towards these outcomes?

The Plan identified vulnerable user groups as well as a vision and supporting goals that we believe will advance equity: safety and health, access and comfort, affordability, and an enhanced network. The Plan also defined future actions and ways to measure progress on these four goals.

Focusing on Vulnerable Residents

Some groups of people experience greater vulnerabilities and disparities in Highland's transportation system—at times as a result of the system itself. The more groups a person identifies with, the greater the disparity. These groups include:

- Black, Indigenous, Latinx, and other People of Color
- People identifying as women, queer, and transgender

Equity in this Plan means that community members who have historically been left out of transportation investments and decisions will be prioritized, engaged, and included.



This Plan works to improve transportation for all residents of our community, especially those who have historically been excluded from transportation decisions and investments.



This Plan aims to serve existing residents and reduce disparities in access to affordable, safe, and comfortable transportation.

- People of no- and low-income/under-resourced
- People with limited English proficiency
- People with disabilities
- Children and older adults
- Single parents
- People who do not own cars or do not drive

The goals, policies, and recommendations of this Plan will work to serve and improve transportation for all residents of our community, particularly those who identify with any of these groups.

State-Identified “Disadvantaged Communities”

This Plan also works to improve conditions in state-identified “disadvantaged communities” within Highland. In 2012, the California Senate passed SB 535 requiring that a portion of all revenue from the state’s Greenhouse Gas Reduction Fund be spent on projects that benefit disadvantaged communities, and charged the California Environmental Protection Agency (CalEPA) with determining which communities qualify as “disadvantaged.” CalEPA developed

CalEnviroScreen, an online tool that ranks census tracts in California based on potential exposures to pollutants, adverse environmental conditions, socioeconomic factors, and prevalence of certain health conditions. Census tracts scoring in the top 25% qualify as disadvantaged. The largest source of state funding for active transportation projects, Caltrans Active Transportation Program (ATP), also defines communities with median household incomes at or below 80% of the state median as “disadvantaged.” For Safe Routes to School projects, Caltrans accepts communities in which at least 75% of students qualify for free or reduced-price meals as “disadvantaged.”

Serving Current Residents

Improvements to the public realm can increase the risk of displacement of existing residents. Too often, public projects are designed to attract new development and appeal to future hypothetical tenants,

rather than serving the people who have historically called the community home before the project began. As housing costs continue to rise across Southern California, existing households (especially renters and working-class families) face the very real threats of unaffordable housing options and displacement. When forced to move, households potentially lose contact with the community they rely on and are connected to.

The project recommendations have been shaped by—and designed for—the existing residents of Highland. **Consistent with the Equity Framework, this Plan supports current residents' right to remain in their community as this Plan is implemented and improvements to our active transportation network are realized.** The City of Highland will prioritize the needs of existing residents and identify ways to not only improve their safety, comfort and health, but to enhance community access to public resources and create a healthier, more sustainable, and more inclusive community.



The Equity Framework not only guides the recommendations in this Plan, but will continue to guide the City during implementation.

VISION

This Plan aims to make walking and bicycling more comfortable, convenient, and accessible for people of all ages and abilities throughout the city.

GOALS, OBJECTIVES, AND ACTIONS

Safety & Health

This Plan will empower residents to live a more active lifestyle by providing a network of safe and comfortable walking routes and bikeways for everyone to enjoy.



Asking the Right Questions

- Will the Plan help reduce crashes and fatalities while increasing opportunities for physical activity among vulnerable populations?
- Does the Plan help reduce air pollution, asthma rates, and greenhouse gas emissions, particularly within vulnerable populations?

How Do We Measure Progress?

- Reduce the number of severe and fatal collisions to zero by 2040
- Increase percentage of K-12 students receiving bicycling education
- Increase outreach and education events throughout the City of Highland, particularly in disadvantaged neighborhoods, by 20%
- Increase walk/bike mode share by 5% by providing options for local trips
- Decrease the number of poor air quality/smog days by 5%

Asking the Right Questions	How Do We Measure Progress?
	Decrease rates or prevalence of obesity and chronic diseases (e.g., cardiovascular disease, type 2 diabetes, cancer)



Objective	Action
A. Reduce bicycle and pedestrian collisions through safe and comfortable facilities	- Prioritize quick implementation of bicycle and pedestrian facilities on streets with high rates of traffic collisions (such as Palm Ave and Base Line Street) according to the Statewide Integrated Traffic Records System (SWITRS), and as collisions occur. - Annually evaluate data on bicyclist and pedestrian stops by local law enforcement. Determine if stops disproportionately impact a specific group of residents (e.g., based on race, gender, age, or other identity). - Adopt design guidelines that promote safety through incorporating separation between bicyclists/pedestrians and drivers. Refer to national and state best practices. - Implement best practice facilities, including flashing beacons, bulb-outs, and protected intersections, to improve safety and reduce collisions throughout the city. - Fund safety education programs for both people driving and people biking that encourage safe behaviors. - Adopt a City Council resolution authorizing school zone speed limits as low as 15 MPH.



Objective		Action
B.	Promote an active lifestyle that includes biking and walking	1. Dedicate City staff to implement programs that encourage residents to walk and bike together on city streets. 2. Fund programs that incorporate biking and walking into curriculum at district schools. Seek an Office of Traffic Safety Grant or other funding or resources for educational activities. 3. Provide more opportunities for outdoor recreation via parks, "recreation-friendly streets," and joint-use agreements with school facilities. 4. Develop a citywide bicycle map for public use. 5. Establish a bicycle-friendly business program to encourage biking and walking by employees and customers.
C.	Reduce air pollution, asthma rates, and greenhouse gas emissions	1. Build an active transportation network that encourages residents to choose modes of transportation other than driving by providing low-stress facilities, robust pedestrian networks, and first/last mile access to transit. 2. Achieve a 5% reduction in vehicle miles traveled as residents, workers, and visitors meet daily needs by walking, bicycling, and using transit.
D.	Reduce travel times for low-income households	1. Increase the overall mileage of the low-stress bicycle network in low-income neighborhoods by 10% by 2025.



Access & Comfort

This Plan will support increased access to neighborhood destinations such as grocery stores, libraries, schools, recreation centers, and transit stops. Pedestrian and bicycle facilities will be accessible and comfortable for people of all ages and abilities to use.

Asking the Right Questions	How Do We Measure Progress?
- Does the Plan prioritize the needs and trip patterns of vulnerable users? - Does the Plan remove barriers so that vulnerable populations can take part in or enjoy the improvements? - Does the Plan support and not impede public transit service? - Does the Plan consider universal design principles that serve all users, including those with physical disabilities?	- Increase the share of people walking and bicycling to work to 3% by 2025 - Increase the share of students walking or bicycling to school to 10% by 2025 and 15% by 2030 - Reduce the percent of streets that are Level of Traffic Stress (LTS) 4 from 7% to 5% by 2025 - Implement a Complete Streets policy - Implement a Safe Routes to School (SRTS) Program - Implement a Vision Zero program - Make a SCAG Safety Pledge - Complete Tier 1 projects recommended in this Plan by 2030 and Tier 2 projects by 2040



Objective	Action
A. Increase access to jobs, education, retail, parks and libraries, schools, recreational centers, transit, and other neighborhood destinations	- Implement the recommended active transportation network to safely and comfortably connect residential neighborhoods with destinations like employment centers, grocery stores, community centers, schools, and shopping areas. - Increase bicycle parking at neighborhood destinations like schools, medical centers, grocery stores, and government offices.

Objective	Action
	3. Establish a transportation impact fee ordinance to leverage funding for installation of new bicycle and pedestrian facilities. 4. Evaluate all streets during pavement resurfacing to determine if pedestrian or bicycle facilities can be provided (e.g. bike lanes, wider curb lanes or shoulders) on an ongoing basis. 5. Incorporate routine accommodation for pedestrian and bicycle facilities when developing priority lists for overlay and construction projects, maintenance, and traffic control plans. 6. Install wayfinding signage, informational kiosks, and other amenities at key destinations to help guide bicyclists and pedestrians. 7. Ensure street furniture supports active transportation. Allocate benches, shade, and hydration amenities in areas with high volumes of people walking and biking. 8. Maintain a pedestrian through zone free from all types of obstructions including poles, benches, utility boxes, etc. Work with local businesses to prevent obstruction of pedestrian walkways by items such as restaurant seating and merchandise.
B. Address barriers so that vulnerable populations can take part in the improvements	1. Seek funding to provide opportunities for walking/biking supplies giveaways. 2. Provide free basic bicycle maintenance training and bicycle tool lending at libraries to empower residents to fix bicycle issues for minimal cost. 3. Provide bike parking, fix-it stations, and hydration stations at key community destinations.
C. Support public transit service	1. Design bikeways on transit streets using best practices that do not impact transit reliability or bicycle/pedestrian movement (e.g. floating bus islands, bus/bike lanes). Best practices can be found in design guidelines such as the Urban Street Design Guide (2013), produced by the

Objective	Action
	National Association of City Transportation Officials' (NACTO). 2. Work with OmniTrans to improve bicycle and pedestrian access (first/last mile connections) to transit stations and the comfort of transit stops and onboard transit vehicles, especially during peak commute hours, and to provide secure bike parking, benches, and covered waiting areas at stations and stops. 3. Work with OmniTrans to require and install rear wheel guards on all agency buses. 4. Install more secure, long-term bicycle parking at major transit hubs.
E. Prioritize the needs and trip patterns of vulnerable populations	1. Increase the overall mileage of the sidewalks and low-stress bicycle network in low-income neighborhoods by 10% by 2025. 2. Prioritize the construction of facilities that connect existing active transportation networks and address disparities between neighborhoods. 3. Develop Safe Routes to School Plans for each K-12 school in Highland in collaboration with the schools and school districts to identify specific improvements for school-age pedestrians and bicyclists through focused studies.
F. Prioritize universal design standards	1. Prioritize design that facilitates access, comfort, and ease for all users, including people with physical disabilities, strollers, food carts, etc. 2. Install or upgrade curb ramps to comply with current Americans with Disabilities Act standards. 3. Repair potholes and pavement cracking, including those in crosswalks, during routine maintenance. 4. Provide ample crossing time at signalized crossings, particularly those adjacent to destinations heavily used by people who move at slower rates, including children, older adults, and people with physical disabilities.



Affordability

This Plan will work to reduce the burden of transportation costs on households.

Asking the Right Questions

- Does the Plan help reduce the burden of transportation costs?
- Is implementation of the Plan likely to reduce transportation costs in the long run (e.g. by reducing the need for vehicle ownership or for parking in new developments)?
- Does the Plan enhance affordability for existing residents?

How Do We Measure Progress?

- Build a complete network of low-stress bikeways by 2040
- Connect all major transit stops and community destinations with bicycle and pedestrian facilities by 2030
- Demonstrate a reduction in vehicular trips and an increase in walking and bicycling with traffic counts by 2030



Objective

Action

A.	Reduce the overall household transportation costs for all residents, both anticipated and existing	1. Build an active transportation network that provides low-stress bicycle and pedestrian facilities for people, particularly those in low-income neighborhoods, and encourages the use of biking and walking as low-cost transportation. 2. Build facilities that provide first- and last- mile connections to public transit stations and major bus stops. 3. Integrate sustainable transportation improvements with housing projects, particularly affordable housing. 4. Establish "Cultural Corridors" around large transportation investments to bolster cultural celebration, local economic growth, and ability to stay in place. 5. Develop an "Equity Scorecard" to assess new projects within the community to ensure priorities, goals, and desired outcomes related to equity are being met.
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Objective	Action
B. Reduce long-term transportation costs by reducing the need for vehicle ownership or for parking in new developments	1. Review the Highland Planning Code and identify opportunities to reduce or eliminate parking minimums. 2. Update the Highland Planning Code to require more bicycle parking in major development projects. 3. Update the Highland Planning Code to require end-of-trip-facilities, such as showers and changing rooms, in major non-residential developments. 4. Update the Highland Planning Code to require pedestrian improvements (such as sidewalks, bulb-outs, and ADA compliant curb ramps) in major development projects. 5. Revise the menu of transportation demand management (TDM) options to include bike-share passes, fix-it stations, and hydration stations.



Maintain & Expand the Network

This Plan will help our community identify, develop, and maintain a complete and convenient bicycle and pedestrian network.

Asking the Right Questions	How Do We Measure Progress?
• Does the Plan adequately position our community for successful implementation? • Does the Plan ensure equitable distribution of proposed facilities?	• Triple the mileage of existing bikeways by 2040 • Double the number of short-term and secure long-term bicycle parking locations by 2030 • Maintain adequate pavement quality, striping, and sign visibility and signal/beacon functionality on all bicycle and pedestrian facilities. • Start tracking and begin publishing annual bicycle and pedestrian counts

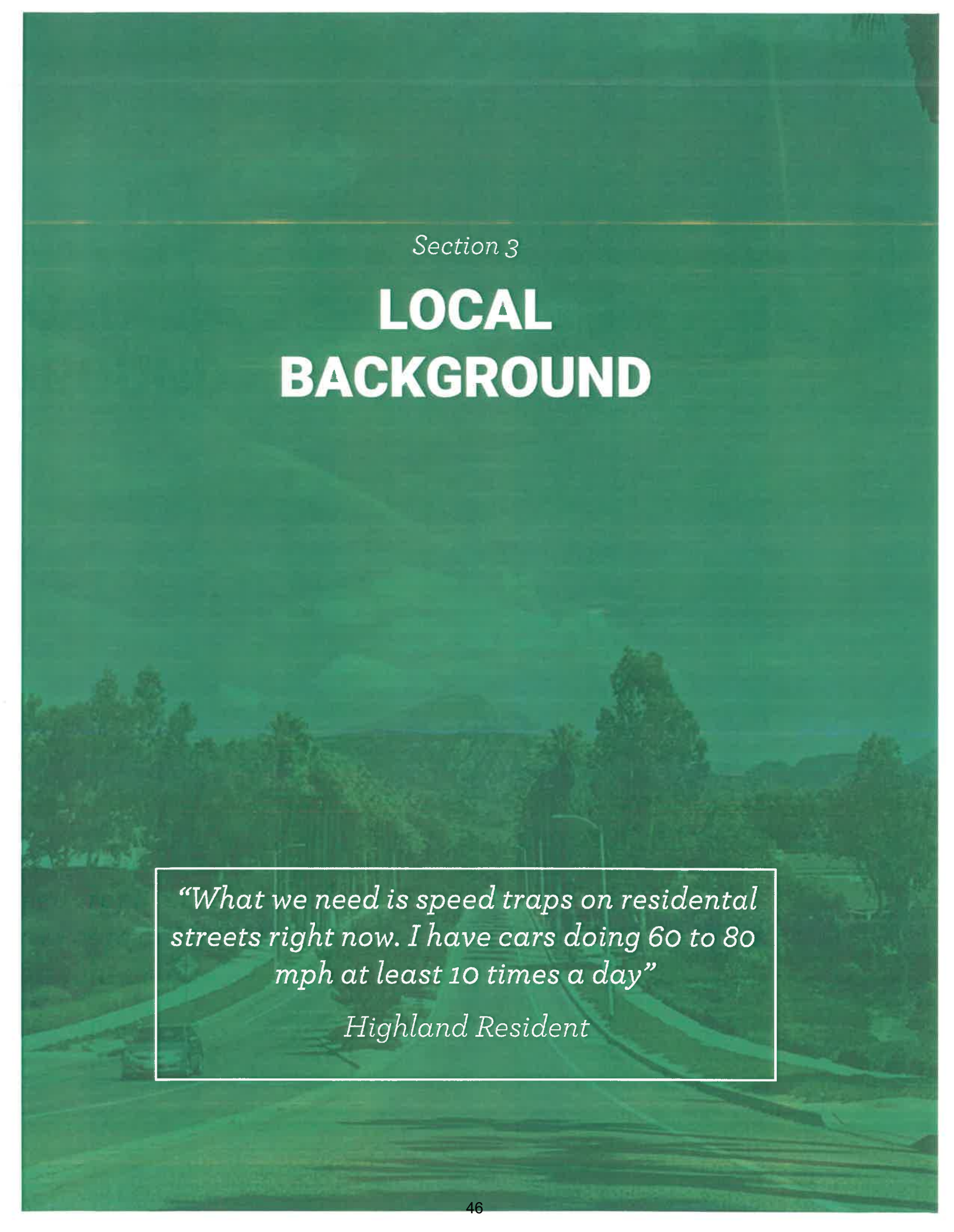
Asking the Right Questions	How Do We Measure Progress?
	to SCAG's Active Transportation Database (ATDB) by 2021



Objective	Action
A. Integrate bicycle and pedestrian network and facility needs into all Highland planning documents and capital improvement projects	1. Review the City of Highland's Capital Improvement Program (CIP) list on an annual basis to ensure that recommended projects from this Plan are incorporated at the earliest possible stage of both new capital projects and maintenance of existing facilities. 2. Evaluate all streets during pavement resurfacing to determine if additional bicycle and pedestrian facilities can be provided (e.g. bike lanes, wider curb lanes or shoulders, wider sidewalks) when the striping is reapplied. 3. Ensure that all traffic impact studies, analyses of proposed street changes, and development projects address impacts on bicycling and walking facilities. 4. Require new development, or reconstruction if applicable, to address the pedestrian and bicycle circulation element based on the above considerations. 5. Conduct regular pedestrian and bicycle counts before and after project implementation following SCAG's methodology. Upload counts to SCAG's ATDB. 6. Conduct a report every three years on the implementation status of the Plan.



	Objective	Action
B.	Leverage existing funding to maximize project delivery	1. Utilize City funds as a local match if needed, aggressively pursue funding from available grant sources. 2. Actively develop projects from the Plan to position the City of Highland to best compete for grant funding. 3. Follow the Plan's prioritization recommendations, which include equity and other funding-agency-determined factors in scoring. 4. Continue preparing an annual Work Plan including the status of pedestrian and bicycle projects in this Plan that have been completed, are in progress, and are proposed for the budget year showing scope, schedule, and budget by fund source. 5. Through the CIP process, assess and prepare for upcoming staffing, consultant, and capital funding needs as projects arise. 6. Establish a development fee requirement to provide for construction and maintenance of sidewalks, bikeways, and trails serving the new development.
C.	Maintain designated facilities to be comfortable and free of hazards to biking and walking	1. Sweep streets regularly, with priority given to those with higher pedestrian and bicycle traffic. 2. Trim overhanging and encroaching vegetation to maintain a clear path of travel along pedestrian and bicycle facilities. 3. When an off-street facility is constructed, establish an inspection and maintenance program. 4. Develop a procedure for inspection and maintenance of bicycle parking facilities. 5. When roadway projects occur, require roadway to be of satisfactory quality for smoothness and restriping suitable for bicycling. 6. Publish a triennial report on the state of walking and bicycling in Highland to monitor and evaluate the City's progress on implementing the Plan.



Section 3

LOCAL BACKGROUND

“What we need is speed traps on residential streets right now. I have cars doing 60 to 80 mph at least 10 times a day”

Highland Resident

3. Local Background

HISTORICAL AND CURRENT CONTEXT

There is great potential to expand the role and use of active transportation in the City of Highland. The city is located in the southwestern corner of San Bernardino County near the Cities of Redlands, Loma Linda, and the City of San Bernardino. Incorporated in 1987, the city's population has grown by approximately 84% since incorporation. The city continues to develop to meet the needs of the population while still maintain a high percentage of open space. Due to its proximity to the San Bernardino National Forest and the Santa Ana River, open space is designated in more than 20% of the community.

While the city has grown and modernized, Highland has maintained some of its historical commercial and residential structures particularly around "Old Town." The Highland Historic District, as it is formally called, is generally bounded by Nona Avenue to the north, Main Street to the south, Orange Street to the west, and Church Avenue to the east. It contains an interesting blend of early 1900s architecture, including Craftsman Bungalows, Victorian-influenced designs, Gothic Revival, and early commercial styles. Highland Historic District is designated with the National Register of Historic Sites. A community with roots spanning long before our incorporation as a City, Highland has a history in the citrus industry. The industry remains active today with a number of packing houses still operating in Highland.

EQUITY ANALYSIS

The project team conducted an analysis using existing demographic information from the US Census Bureau. All data was obtained from the 2017 American Community Survey (ACS) Five-Year Estimates and analysis was conducted at the census tract level for Highland. For this analysis, the following indicators were used:

- **Age:** Individuals under the age of 18 and over the age of 65 comprise this indicator. These two age groups are displayed separately to better identify the differing needs of these populations.
- **Race:** This indicator measures the percentage of the population that identifies as non-white.
- **No Access to a Vehicle:** This indicator measures the percentage of households who do not have regular access to a vehicle.
- **Income:** This indicator measures the median household income.
- **CalEnviroScreen 3.0:** This indicator identifies disadvantaged communities as compared to other places in California.

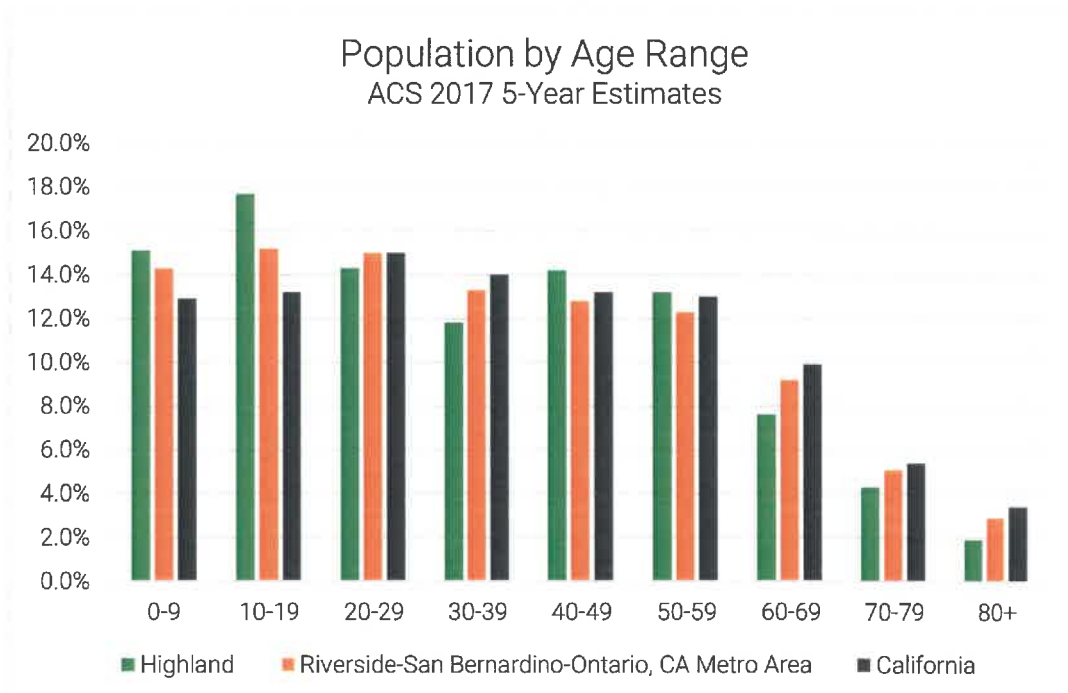
Demographics

Highland is home to approximately 55,000 residents. San Bernardino County, on the other hand, has a population of over 2.1 million people.

Age

When compared to the county population, Highland is younger, with more between 10 and 39 years old, than that of the County or State, as shown in Figure 1. The median age in Highland is 32.4 years, whereas the median age for the county is 34 years.

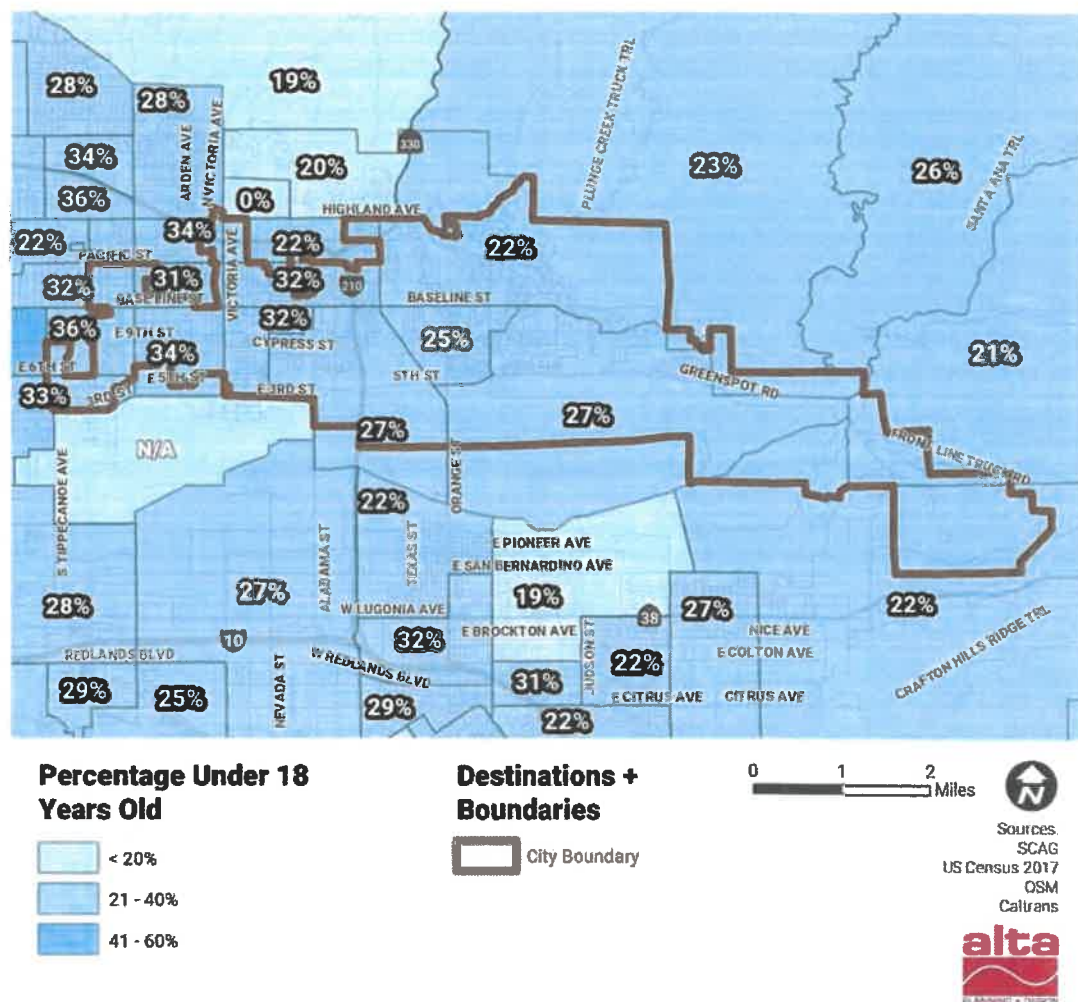
Figure 1. Distribution of Ages



UNDER 18

In total, approximately one-third of our residents are 18 years and younger. Youth comprise larger portions of the population throughout the western portion of the city. Youth comprise between 36% and 22% of the population across all census tracts. Higher concentrations of those under the age of 18 are not in close proximity to the existing bikeway network.

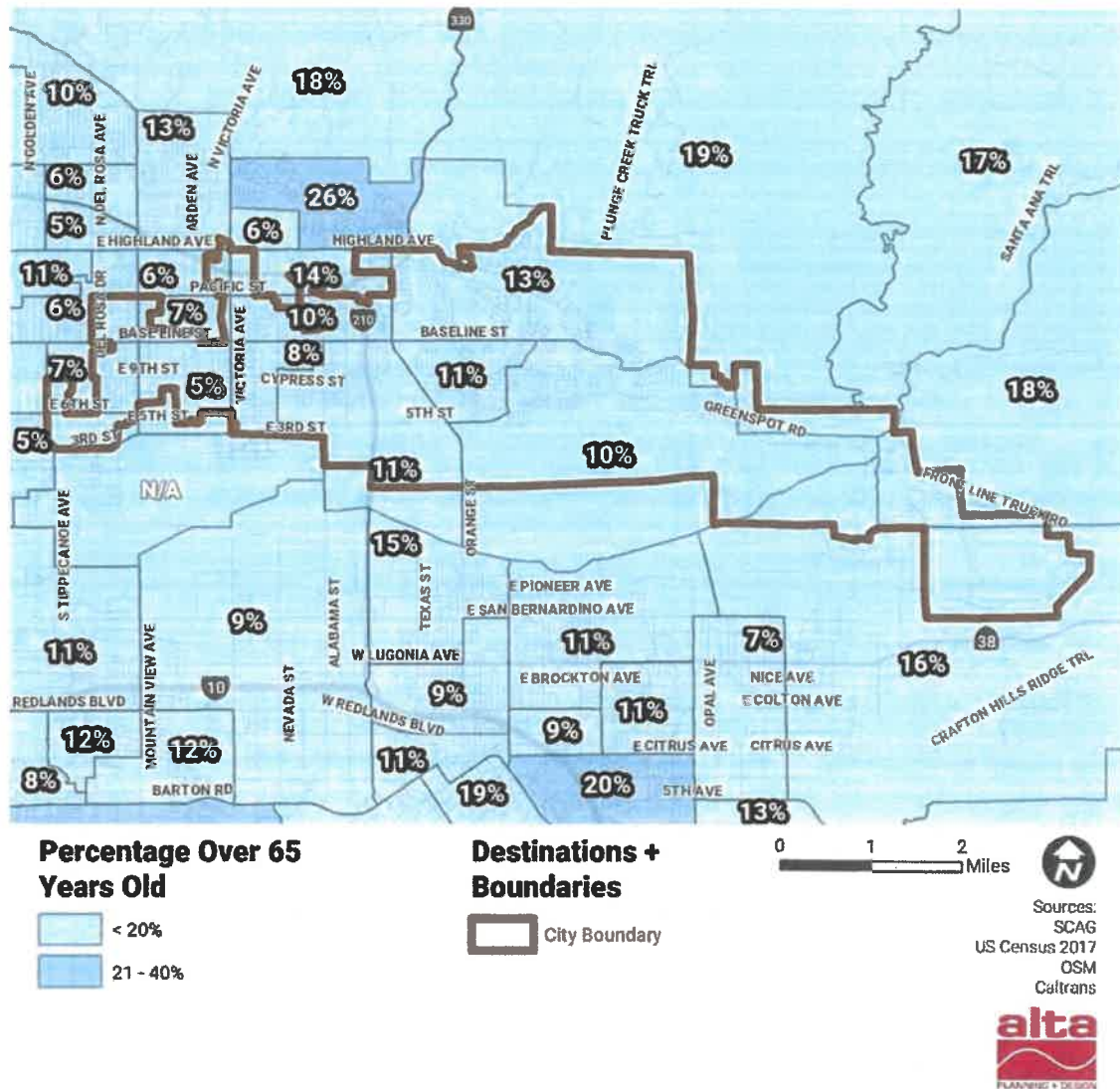
Figure 2. Percentage of Population Under 18



OVER 65

Residents over 65 years of age comprise 13% of our population, a much smaller percentage compared to youth in our city. The concentration of population over the age of 65 has different spatial distribution to that of the population under the age of 18; with more older adults throughout the eastern part of the city. Census tracts range from having 5% to 13% or residents over 65. Higher concentrations of those over the age of 65 are in close proximity to the existing bikeway network.

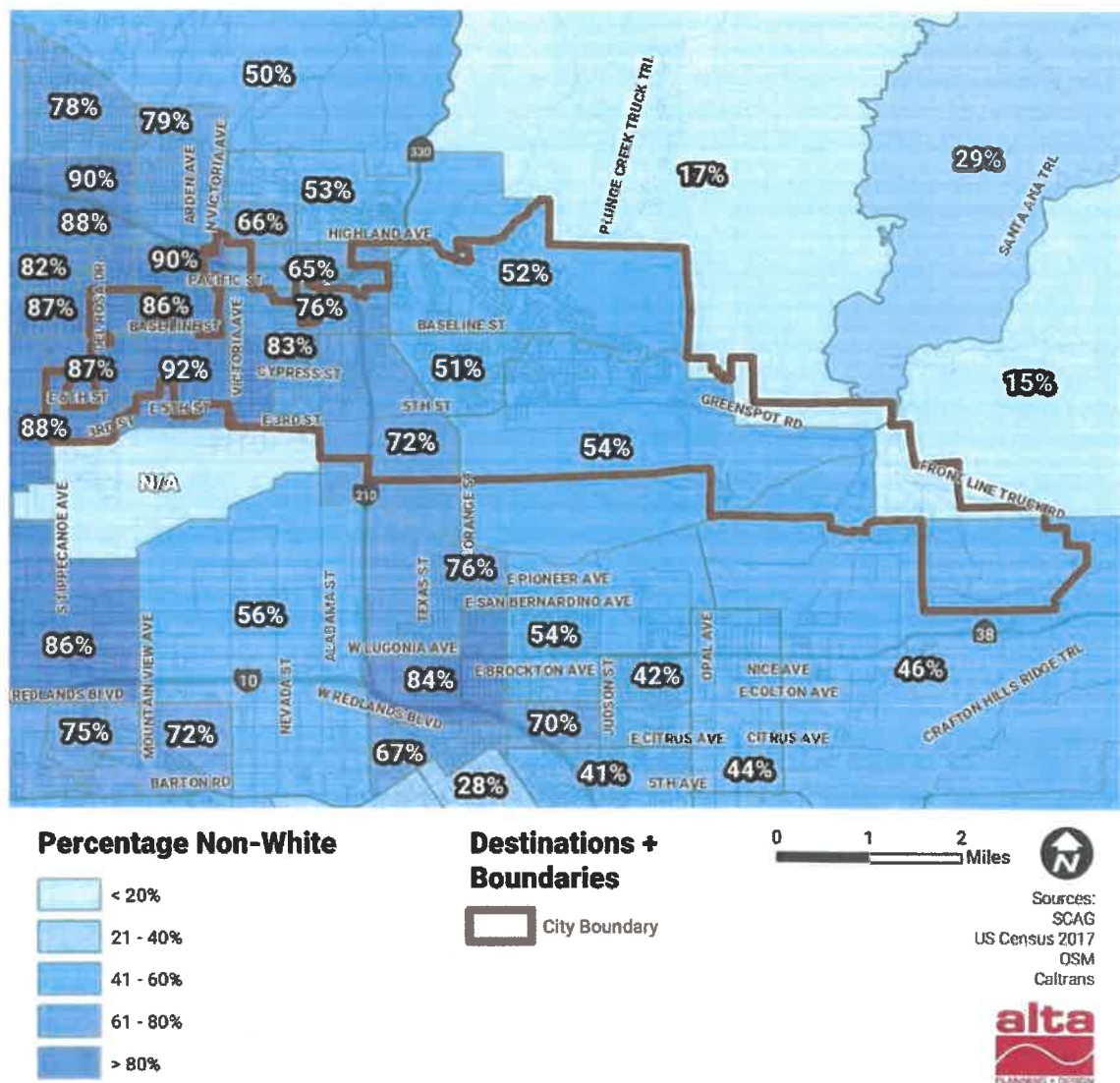
Figure 3. Percentage of Population 65 and Older



People of Color

Approximately 72% of Highland residents identify as non-white. Census tracts' populations can range from 54% people of color to 92%. Higher concentrations of non-white populations are located within the western part of the city away from existing transit corridors.

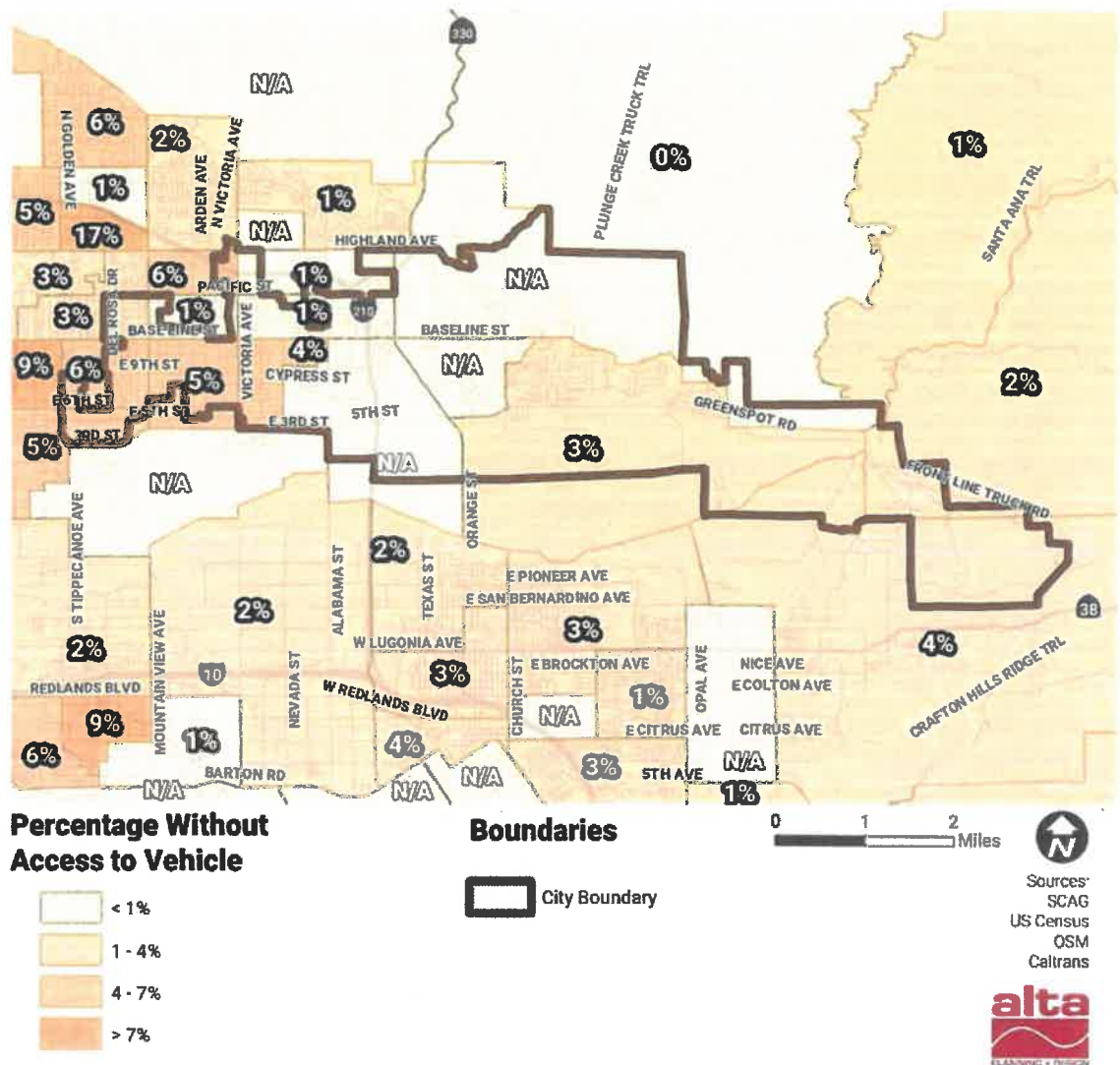
Figure 4. Percentage of Population that is Non-White



No Access to Vehicles

In general, areas with higher concentrations of no motor vehicle access are found in the western parts of the city, where the existing active transportation network is limited. Census tracts range from having 1% of households not having access to a motor vehicle, up to nearly 5% of the population. Approximately 1.9% of households do not have access to a vehicle.

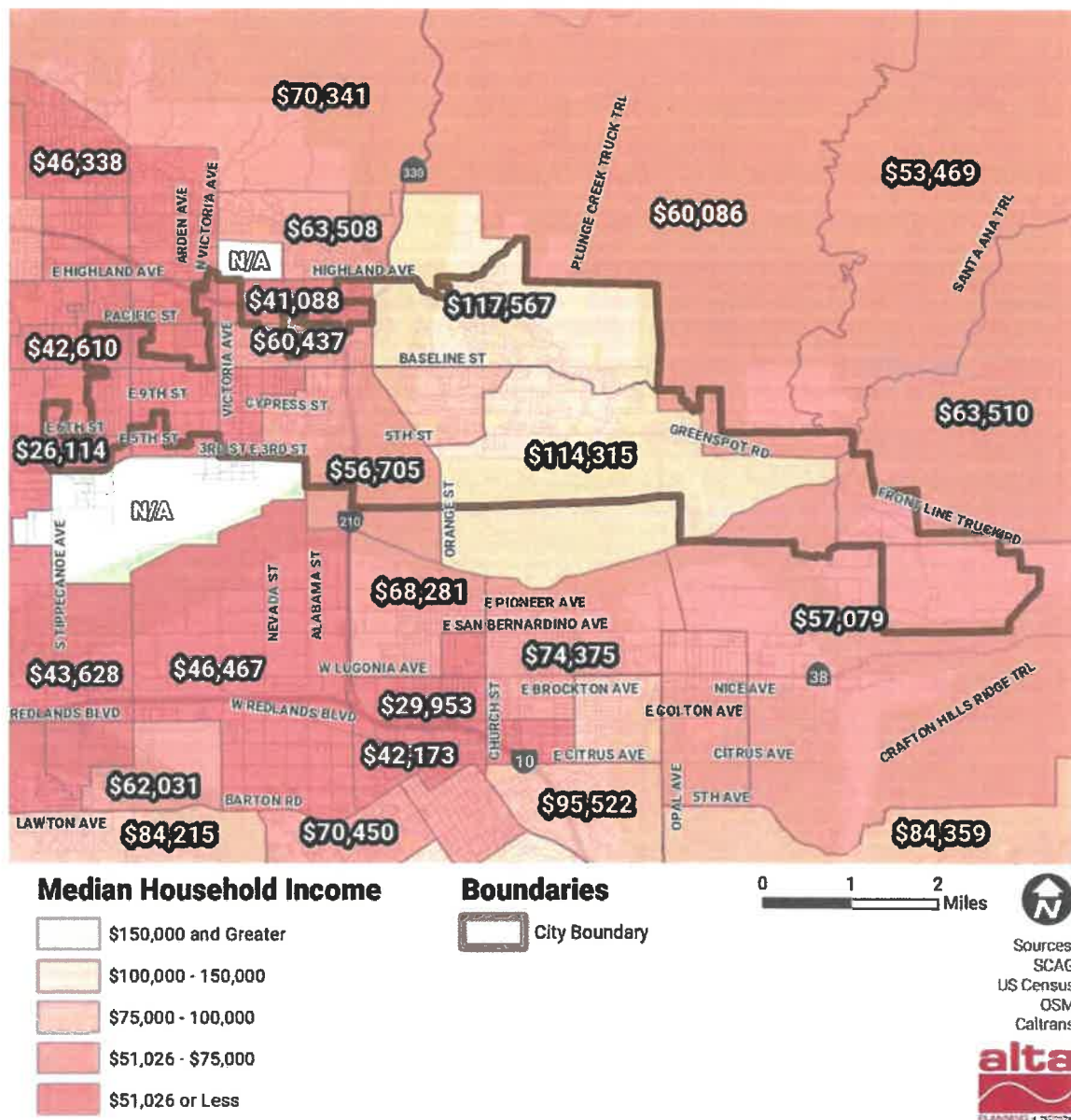
Figure 5. Percentage of Households without Access to an Automobile



Median Household Income

The overall median household income in Highland is \$55,130, which is lower than the Riverside-San Bernardino-Ontario metro area median household income of \$59,173. Households in the eastern portion have significantly higher household incomes compared to those on the west side (\$117,000s and \$42,000s, respectively).

Figure 6. Median Household Income



CalEnviroScreen 3.0

The California Office of Environmental Health Hazard Assessment developed the CalEnviroScreen tool to help identify communities that are disproportionately burdened by multiple sources of pollution. It combines pollution data (such as ozone concentrations and drinking water contaminants) with population indicators (such as birth weight and educational attainment).

This is also a tool used in California's Active Transportation Program grant application scoring. Communities that score in the most burdened 25% of the state are considered to be disadvantaged and receive a small advantage in the competitive funding process. Areas in Highland that meet this threshold are indicated in Figure 7.

LAND USE & DESTINATIONS

Land uses in Highland are shown in Figure 8. Highland is primarily comprised of commercial, industrial, and single-family residential uses. Open spaces and parks are found north outside of the city boundaries while industrial facilities are located south near 3rd Street. Commercial and businesses are concentrated along Base Line Street and west of the city. In addition to a large single-family residential presence throughout the city, Highland has large number vacant lands located west of the city.

Figure 7. CalEnviroScreen 3.0 Scores by Census Tract

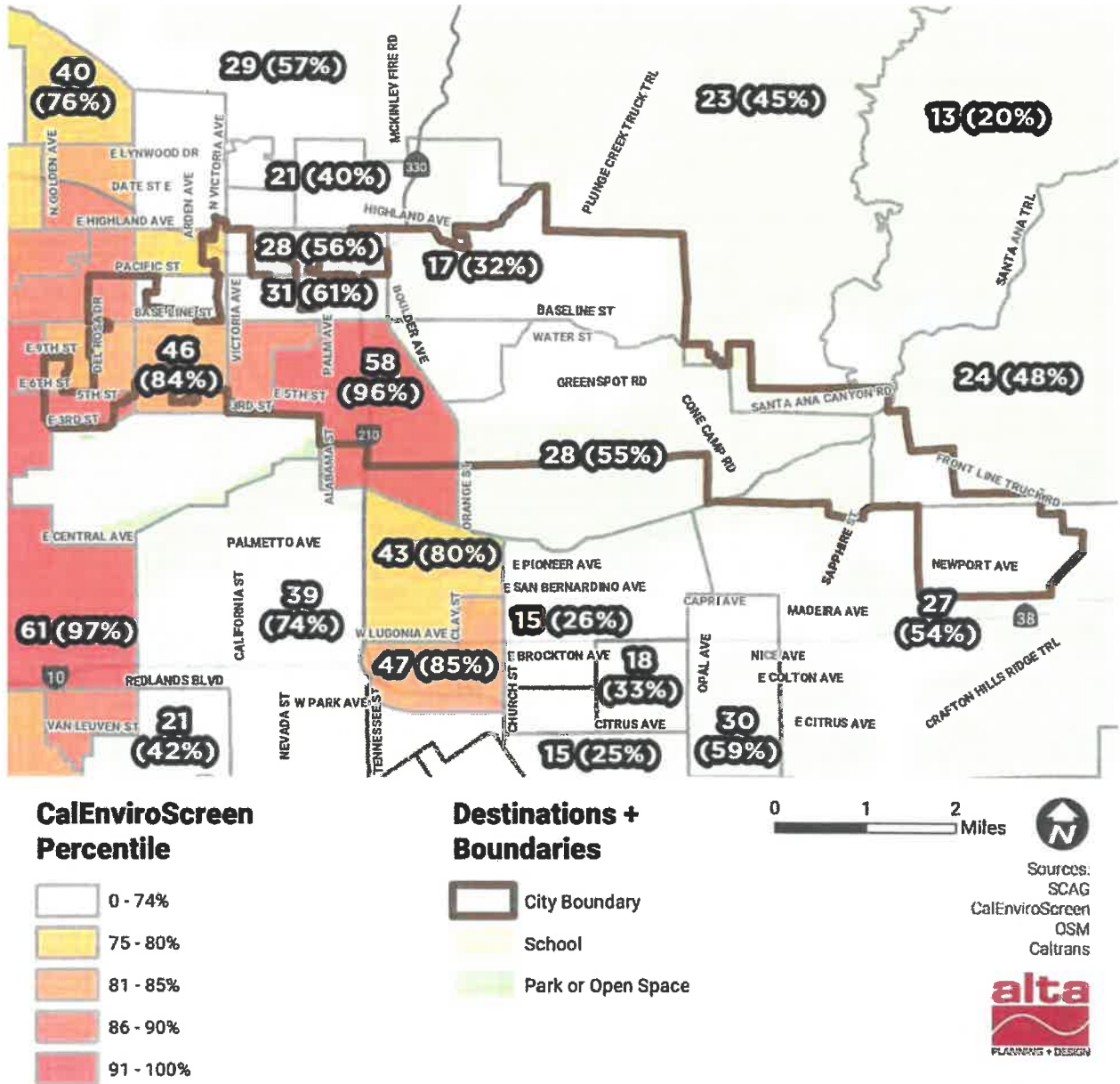
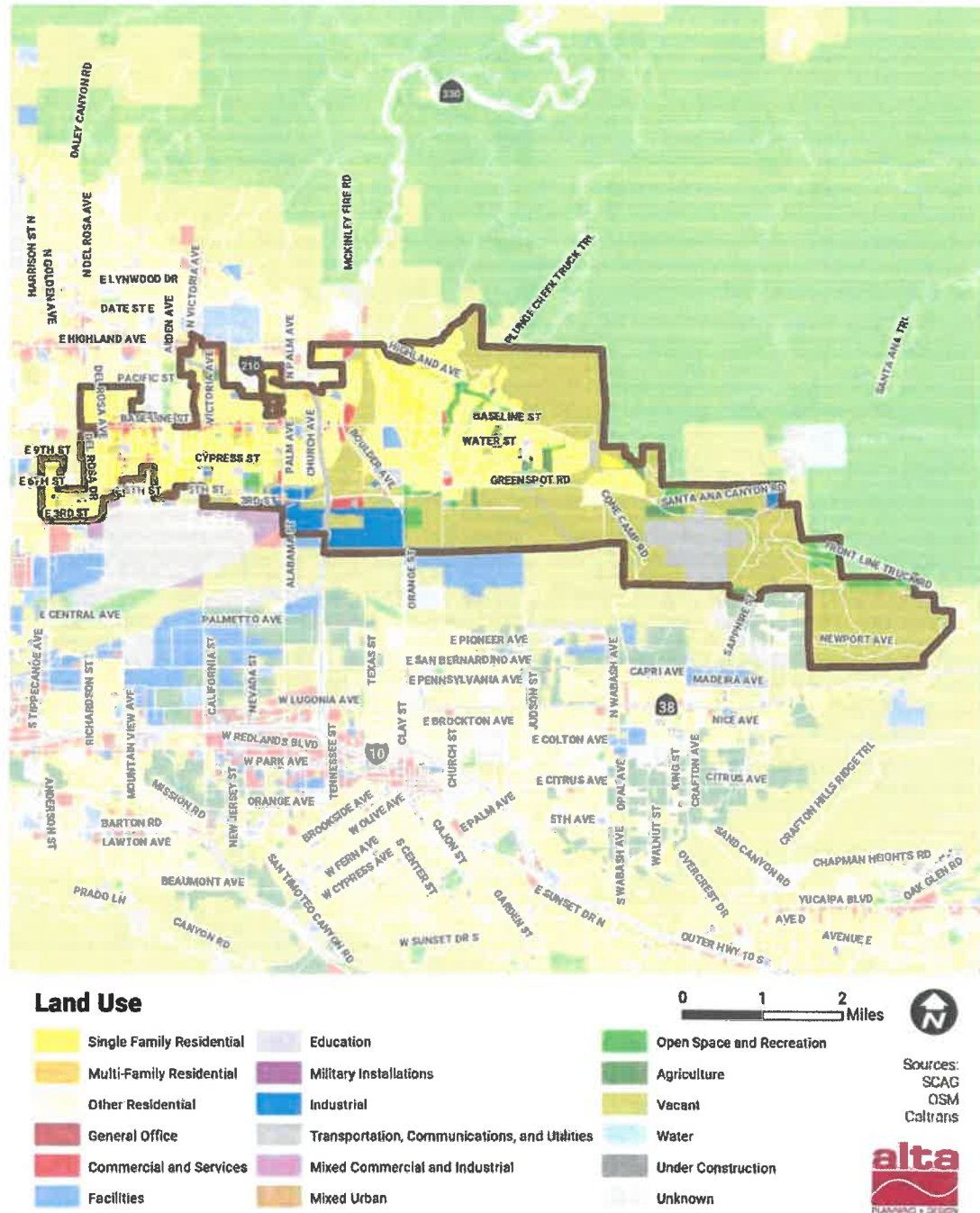


Figure 8. Land Use



Transit Access

Highland is served by several transit providers and routes that offer connections to local and regional destinations. Major transit hubs include:

- Route 3/4: Operated by Omnitrans and connects Highland with San Bernardino via Base Line Road
- Route 15: Operated by Omnitrans and connects Fontana, San Bernardino, and Redlands
- Route 5: Operated by Mountain Transit and connects Big Bear Valley, Running Springs, Highland, and San Bernardino; stops in the city at Highland Avenue and Boulder Avenue

The first two routes provide connections to the San Bernardino Downtown Metrolink Station, which is served by the San Bernardino Line (with service west to downtown Los Angeles), and the Inland Empire – Orange County Line (with service south to Oceanside).



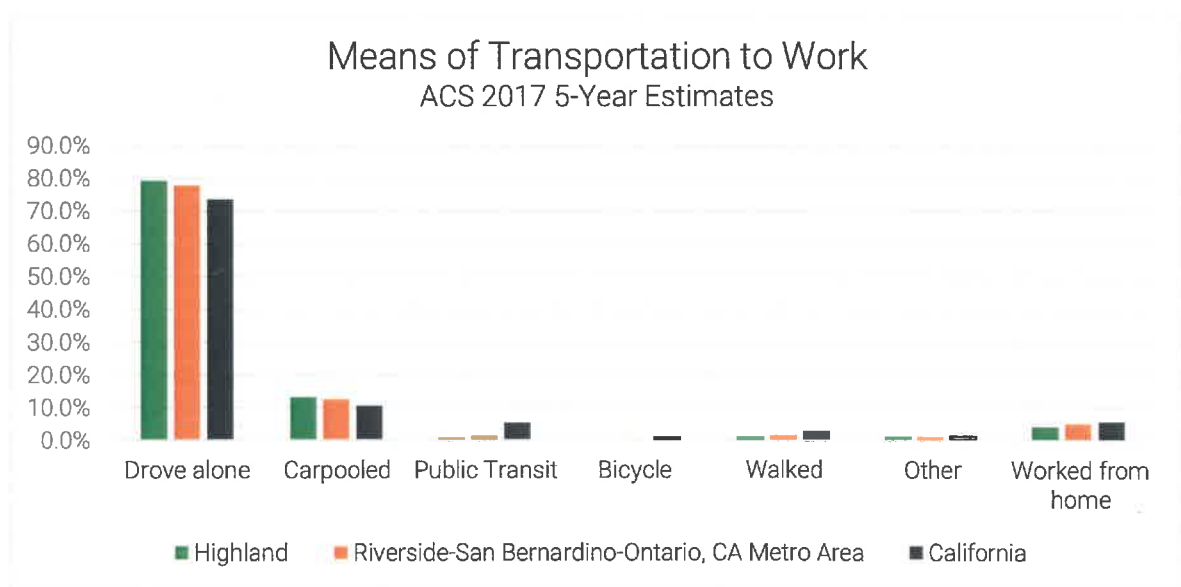
Omnitrans serves as the main transit hub in Highland, providing connections to local and regional destinations.

EXISTING TRAVEL PATTERNS

Mode Share

Of the 22,300 Highland residents 16 or older officially in the workforce as of 2017, only 1% are estimated to walk and 0.2% are estimated to bike to work. However, rates of walking and biking are likely higher than this, as ACS does not factor recreational trips or trips where commuters use more than one mode when traveling to work, such as taking a bus partway then riding a bicycle to the final destination. Almost 2 percent of workers (about 423 total) reported that they do not have access to an automobile. These workers would rely on transit, walking, bicycling, or carpool to get to work.

Figure 9. Means of Transportation to Work



PLANS AND POLICIES

This Plan is consistent with and builds upon the efforts of various planning, policy, and regulatory documents. These include the Highland's own documents, such as the General Plan, Code of Ordinances, and Greenspot Specific Plan. Highland also intends to design a bicycle and pedestrian network that complements existing and planned bikeways and pedestrian projects in surrounding jurisdictions. Therefore, the planning context also includes bicycle and pedestrian plans, policies, and projects of neighboring jurisdictions, San Bernardino County, and the State of California.

This Plan will help Highland continue to meet the following goals. See Appendix D for all of the relevant plans and policies.

Local

General Plan

LAND USE ELEMENT

- **Goal 2.10:** Create a new Town Center where Highland residents, employees and visitors can live, shop, work, recreate and socialize in a vibrant, safe and pedestrian-friendly environment.

CIRCULATION ELEMENT

- **Goal 3.1** Provide a comprehensive transportation system that facilitates current and long-term circulation in and through the City.
- **Goal 3.7** Protect and encourage bicycle travel.

CONSERVATION & OPEN SPACE ELEMENT

- **Goal 5.12** Develop and maintain trail and bikeway connections to recreational facilities, schools, existing transportation routes, natural features and regional trail systems.

PUBLIC HEALTH & SAFETY ELEMENT

- **Goal 6.8** Reduce mobile and stationary source air pollutant emissions through cooperation and endorsement of the San Bernardino Regional Air Quality Plan and support of feasible techniques, incentives, and regulatory measures to achieve significant air quality improvements and any necessary air quality related lifestyle and economic changes while sustaining continued economic growth.

Code of Ordinances

- Require secured bicycle parking at all new nonresidential and multi-family developments
- Provide for non-motorized circulation on residential developments
- Participate in the implementation of the countywide bicycle plan

Greenspot Specific Plan (2008)

1.3.1. COMMUNITY DESIGN

- To provide easy pedestrian connections between residential neighborhoods and shopping opportunities

1.3.2. LAND USE

- To establish distinctive residential neighborhoods, each with safe and convenient pedestrian access to a central open space area, as well as to commercial opportunities

1.3.3. CIRCULATION

- To provide for safe and efficient vehicular, pedestrian, and bicycle movement within and through the Specific Plan area
- To provide safe and convenient pedestrian and bicycle connections between residential neighborhoods, the open space areas and commercial uses within the Specific Plan area
- To augment major roadway improvements along Greenspot Road and Boulder Avenue

1.3.4. OPEN SPACE

- To encourage outdoor activity by providing trails and open space that is connected by pedestrian walkways to residential and non-residential areas

Regional

San Bernardino County Transportation Authority (SBCTA) Non-Motorized Transportation Plan (2018)

- Increased bicycle and pedestrian access
- Increased travel by cycling and walking
- Routine accommodation in transportation and land use planning
- Improved bicycle and pedestrian safety.



This Plan advances many local, regional, and state goals of increasing walking, biking, and community health.

SBCTA Points of Pedestrian Plan (PIPP) (2016)

- Identify potential gaps in pedestrian mobility, enabling more citizens to reach more places in a more affordable, healthier manner

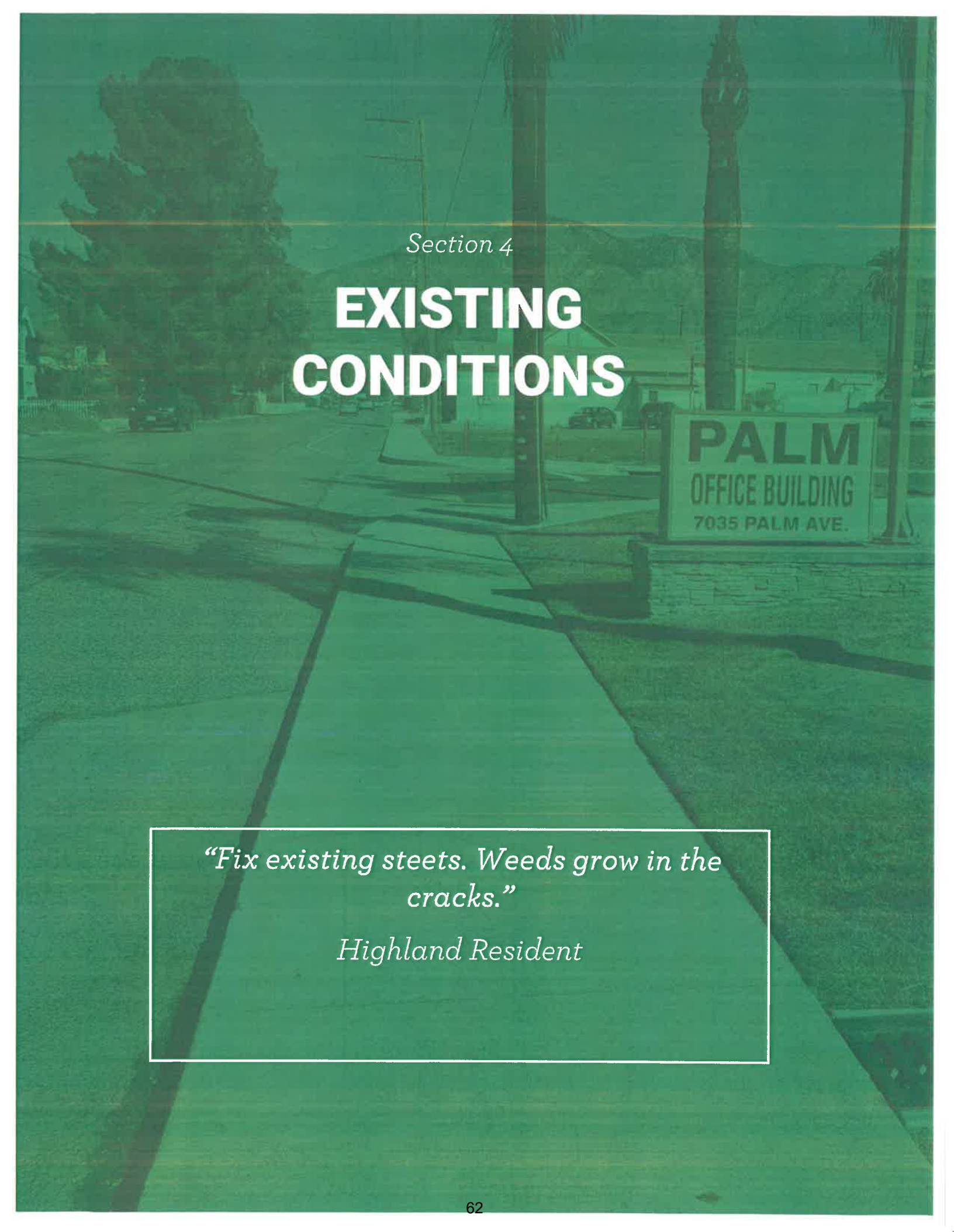
San Bernardino Countywide Transportation Plan (2015)

- Improve safety and mobility for all modes of travel in San Bernardino County by residents, businesses, employees, students and visitors

State

Toward an Active California: State Bicycle and Pedestrian Plan

- Triple bicycling trips and double walking and transit trips statewide by 2020 (relative to 2010).



Section 4

EXISTING CONDITIONS

*“Fix existing steets. Weeds grow in the
cracks.”*

Highland Resident

4. Existing Conditions

ACTIVE TRANSPORTATION OVERVIEW

Types of Active Transportation

Any human-powered mobility classifies as “active transportation.” Beyond walking and biking, active transportation also encompasses people roller skating, skateboarding, using a scooter, and using a wheelchair or other mobility device. In addition to people walking, “pedestrian” also refers to people using mobility devices or skateboards in California per the California Vehicle Code. Active transportation promotes positive public health outcomes, diminishes environmental impacts related to transportation, expands accessibility and mobility choices, and decreases the financial burden of getting around.

The increased prevalence of technology such as electric bicycles (“e-bikes”) and other motor-assisted vehicles has introduced a new element to “active transportation” considerations, fraught with potential and tensions. This Plan aims to advance e-powered devices in so that they support, and not compromise or inhibit, walking and biking.

Types of Pedestrian and Bicycle Facilities

Pedestrian Facilities

There are many features that contribute to a convenient and comfortable walking environment. Significant investments and commitments to future improvements have been made that continue to enhance the pedestrian experience in Highland.

SIDEWALKS

Sidewalks form the backbone of pedestrian transportation networks. Many streets in newer neighborhoods have shaded and well-landscaped sidewalks on both sides of the street. Some even have paseo networks which connect cul-de-sacs, parks, and other neighborhoods on pedestrian and bicycle-only paths. Older neighborhoods, particularly those on the west side of town, have incomplete



Landscaping and shade trees create pleasant walking conditions on this sidewalk.

sidewalks or lack them altogether. In some areas such as Pacific Street near Cole Avenue, the sidewalk and driveway are elevated for a stormwater drainage. This results in an unusually high curb, which could be difficult for children, older adults, and people with mobility impairments to navigate. Within the city limits, sidewalk maintenance is the voluntary act of the property owner and not a City, this requirement associated with applications for new developments or construction.²²



Sidewalk on Orange Street near Highland Pacific Elementary School.



Elevated driveway and sidewalk on Pacific Street.

²²City of Highland. *Public Works Policies Procedures and Standards* (September 13, 2016).

CROSSWALKS

Crosswalks are a legal extension of the sidewalk and provide guidance for pedestrians who are crossing roadways by defining their path of travel. Crosswalks are not required to be marked, however marked crosswalks alert drivers of a pedestrian crossing point and increase yielding to pedestrians. Markings can be standard parallel lines or the “continental” high visibility pattern shown in the image to the right, which enhances visibility of the crossing and is becoming best practice. Crosswalks in school zones are yellow.



Crosswalks near schools, such as these by Highland Pacific Elementary, are marked yellow.

CURB RAMPS

Curb ramps are the design elements that allow all users to make the transition from the street to the sidewalk or vice versa. A sidewalk without a curb ramp can be useless to someone in a wheelchair or pushing a stroller, forcing them back to a driveway and out into the street for access. Many streets in our downtown have curb ramps; however, most feature the “diagonal” approach as opposed to the recommended “perpendicular” approach of placing curb ramps in both directions of travel.



Crossings without curb ramps (such as this one on Main Street and Palm Ave) present difficult conditions for children, older adults, and people using wheelchairs, strollers, or other mobility devices.

PEDESTRIAN HYBRID BEACONS

Pedestrian hybrid beacons are used to enforce motorist yielding to pedestrians at uncontrolled crosswalk locations. The beacon, when

activated by a person wishing to cross, flashes yellow before displaying a solid red signal to motorists, requiring them to stop. Pedestrians are then shown a WALK signal, and may cross the road. When the WALK phase is complete, the beacon flashes yellow before returning to a dark inactive state. Operation of the beacon is illustrated in Error! Reference source not found..

Rectangular Rapid Flashing Beacons or RRFBs increase visibility of uncontrolled or midblock crosswalks with bright LED lights activated by a pedestrian push button. Highland has multiple RRFBs throughout the city, including near the Arroyo Verde Elementary School, City Hall on Base Line Street near Palm Avenue, and on other major corridors such as 9th Street.



A high-visibility crosswalk enhances the visibility of pedestrians at this crossing on Base Line Street at Reedy Avenue. In-street lights, activated with a push button, further alert vehicles of a pedestrian's presence at the crosswalk.



Bicycle Facilities

As of 2019, the California Department of Transportation (Caltrans) designates four classes of bicycle facilities: Class I shared use paths, Class II bicycle lanes, Class III bicycle routes, and Class IV separated bikeways. The City of Highland's current bicycle network has approximately 21.67 miles of bikeways (see Figure 10). Descriptions of each bikeway class are included in the following section, and bikeways are mapped in Figure 11 to show where they currently exist in Highland.

CLASS I SHARED USE PATHS

Class I shared use paths are paved trails completely separated from the street. They allow two-way travel by people bicycling and walking, and are often considered the most comfortable facilities for children and inexperienced riders as there are few potential conflicts between people bicycling and people driving.

There are currently 5.97 miles of Class I shared use paths in Highland.

CLASS II BICYCLE LANES

Class II bicycle lanes are striped preferential lanes on the roadway for one-way bicycle travel. Some bicycle lanes include a striped buffer on one or both sides to increase separation from the traffic lane or from parked cars where people may open doors into the bicycle lane (buffered bicycle lanes are referred to in this Plan as "Class IIB").

There are currently 15.70 miles of Class II bicycle lanes in Highland.



The paseos in east Highland serve as a Class I shared use path.



Class II bike lane on Base Line Street.

CLASS III BICYCLE ROUTES

Class III bicycle routes are signed routes where people bicycling share a travel lane with people driving. Because they are shared facilities, bicycle routes are only appropriate on quiet, low-speed streets with relatively low traffic volumes. Some Class III bicycle routes include shared lane markings or “sharrows” that recommend proper bicycle positioning in the center of the travel lane and alert drivers that bicyclists may be present. Others include more robust traffic calming features to promote bicyclist comfort and are known as “bicycle boulevards” (referred to in this Plan as “Class IIIB”). The Highland Fire Department will be included in discussions about new or altered features on bicycle boulevards, to ensure access for emergency responders is maintained.

There are no Class III bicycle routes in Highland.



Class III facilities provide bike routes on low-speed streets.



Bicycle Boulevards incorporate traffic calming measures such as diverters to maintain low vehicular volumes.

Figure 10. Existing Bikeways by Class and Length



Previously Planned Facilities

While Highland's existing bikeway network covers over 21 miles, previous planning efforts have offered visions for a larger and more connected network spanning more than 54 total miles. Figure 12 shows the locations and types of bicycle facilities recommended in the SBCTA's Non-Motorized Transportation Plan. This planning effort builds on those recommendations and will provide an updated vision of Highland's active transportation network.

Figure 11. Existing Bikeways

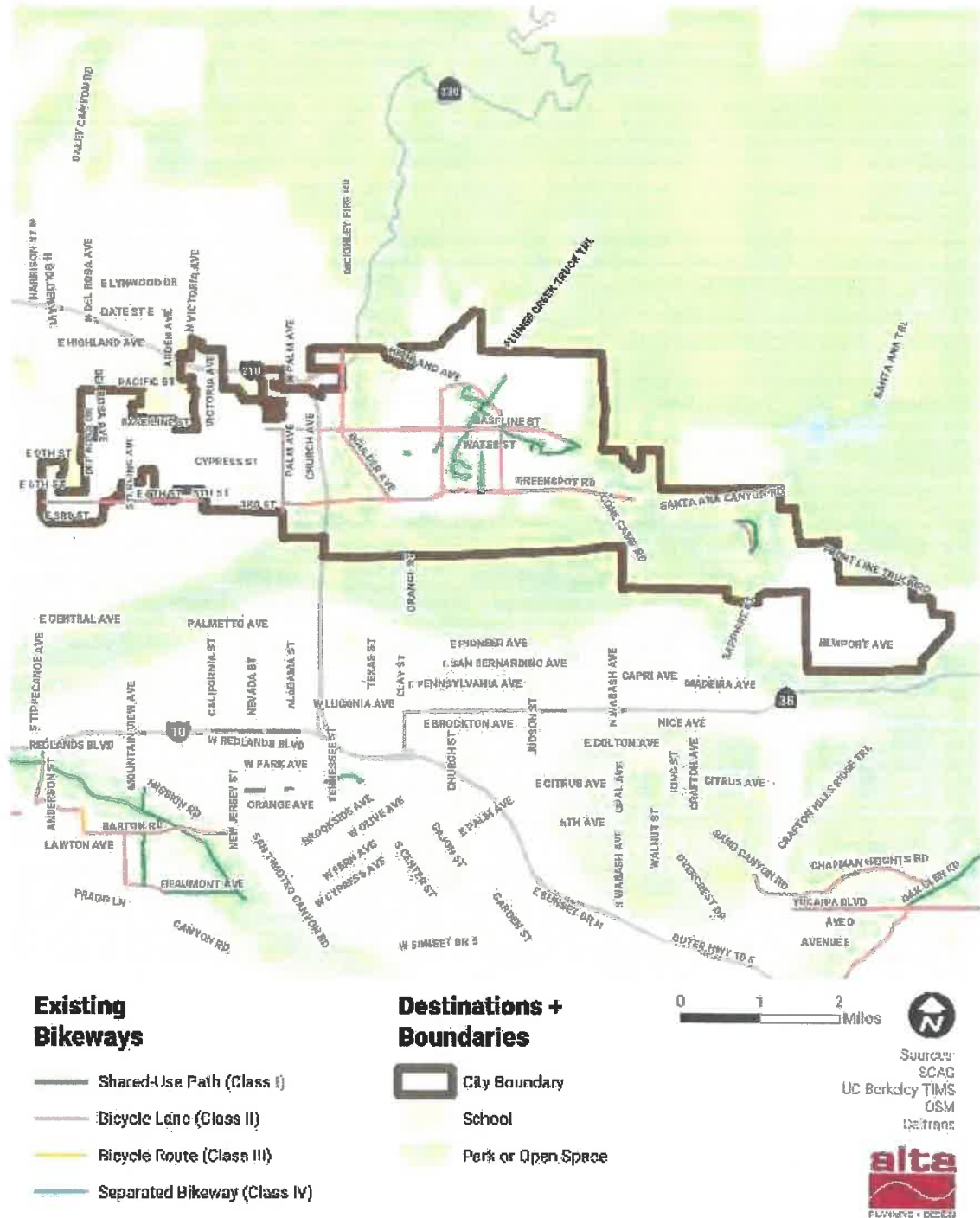
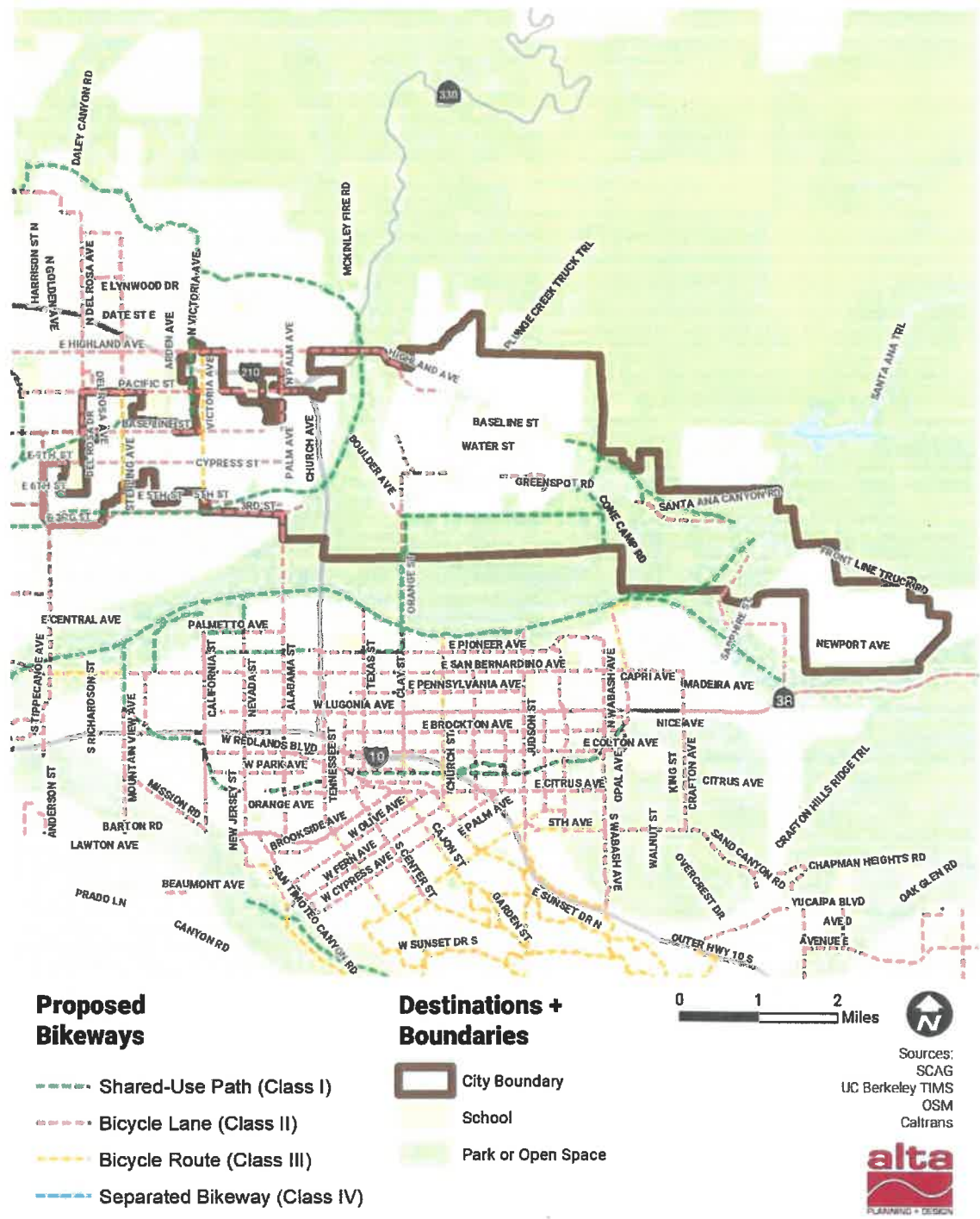


Figure 12. Previously Planned Bikeways



FRAMING ACTIVE TRANSPORTATION

For the Future

Mobility options in many cities have changed drastically in recent years with the rise of bike share programs, transportation network companies (TNCs) such as Lyft and Uber, microtransit, and autonomous vehicles. Shared mobility, micro-mobility, and on-demand mobility are likely to continue being part of our transportation landscape, and often align with our goals of reducing household transportation costs and improving access.

Although called “bikeways,” such facilities are frequently used not just by people riding bikes, but also by other small-wheeled devices such as mobility scooters, skateboards, roller skates, and more. Further, bikeways may continue to be used by new modes such as e-scooters. California Vehicle Code also requires pedestrians use bike lanes if the sidewalk is unavailable.

This Plan works to advance all sustainable mobility options in our community, and considers the benefits, inclusion and potential impacts of non-traditional active transportation modes when making recommendations.



Scooters, bike share, and on-demand mobility services have greatly impacted the transportation experience.

EXISTING SUPPORT FACILITIES

Support facilities are also needed to attract and maintain bicyclists and pedestrians by considering their needs throughout their journey. People are less likely to ride their bicycles to destinations without secure bicycle parking. Other support facilities include showers or lockers at destinations, repair stations with basic tools, drinking fountains, and wayfinding or guide signs to help people navigate along the way.

Bicycle Parking

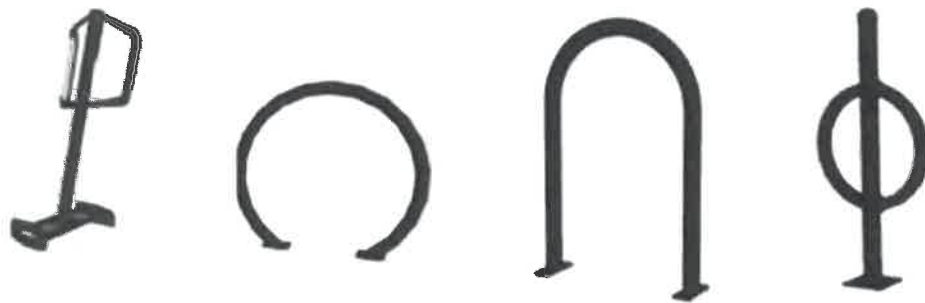
A complete bicycle network must include secure bicycle parking at each end of every trip. Bicycle parking can generally be divided into two categories: short-term bicycle racks and long-term higher-security parking.

Short-Term Bicycle Parking

Bicycle racks are the preferred device for short-term bicycle parking. Racks serve people who leave their bicycles for relatively short periods of time—typically for shopping, errands, eating, or recreation. Though they may have a variety of designs, racks should have two points of connection between the bicycle and rack, allowing the frame and at least one wheel to be secured with a standard U-lock.



Bike racks are found at Highland's City Hall.



Best practices for bike parking allow for two points of contact between bikes and the rack.

Long-Term Bicycle Parking

Long-term bicycle parking typically includes bike lockers and bike rooms and serve people who intend to leave their bicycles for longer periods of time. Long-term parking is typically found at public transit stations, commercial buildings, and multi-family residential buildings.

Our community unfortunately doesn't have bicycle parking or bike racks throughout the city. The city hopes to address this and implement these facilities to support and increase bike ridership across Highland.



Bike lockers provide secure, long-term parking options, and complement short-term bike racks.

Wayfinding

Wayfinding signs help people traveling along bicycle, pedestrian, and trail networks by providing directional and distance information to community destinations. In Highland, bicycle lane and route signage are dispersed throughout the city. School signage are located near schools. Additionally, on Base Line Street near Boulder Avenue, there is wayfinding signage for local destinations such as the post office and trails. Other signage located on Base Line Street near Club View Drive display signage for private trail crossings



Signage directs trail users at this roundabout.



Wayfinding signage should include decision, turn, and confirmation signage.

NON-INFRASTRUCTURE PROGRAMS

Programs help support walking and bicycling by sharing information, promoting comfort, and creating a vibrant active transportation culture. Communities that have the highest rates of walking and bicycling consistently use a “6 Es” approach, with five types of programs complementing **Engineering** improvements:

- **Engagement:** Listening to community members and working with existing community organizations
- **Education:** Providing safety education for people walking, riding bicycles, and driving, as well as education about the environmental and health benefits of active transportation and the facilities available in the community
- **Encouragement:** Promoting bicycling and walking as fun and efficient modes of transportation and recreation
- **Evaluation:** Monitoring the success of the effort through counts, surveys, and review of relevant data
- **Equity:** Increasing access and opportunity for all residents, including disadvantaged minority, and low-income populations



Group rides give confidence and experience to new cyclists.

The City and our partners have been carrying out the following programs in recent years to support bicycling and walking.

Safe Routes to School

The San Bernardino Associated Governments (SANBAG) SRTS Strategy has completed two phases. The first phase evaluated existing resources and prioritize allocation of resources that promote active transportation options regionally. The second phase identified schools throughout the County to collect data and initial implementation in two schools in Highland: Lankershim Elementary School and Warm

Spring Elementary. The City website also shares 2010 Suggested Walking Routes for the Safe Routes to School Program for the following schools in Highland:

- Arroyo Verde Elementary School
- Cole Elementary School
- Cram Elementary School
- Cypress Elementary School
- Highland Grove Elementary School
- Lankershim Elementary School
- Thompson Elementary School
- Warm Springs Elementary School

USER EXPERIENCE & PERCEIVED COMFORT

The experience of being a pedestrian or riding a bike can differ greatly throughout any community. Roads with higher speeds, less separation between traffic and people, lack of adequate facilities, and other factors can create unpleasant experiences.

Increase Comfort, Increase Bicycling

Research indicates that the majority of people in the United States (56-73%) would bicycle if dedicated bicycle facilities were provided. Only a small percentage of Americans (1-3%) are willing to ride if no facilities are provided.²³ However, many of our community members who rely on biking for transportation do not always have the luxury of choosing a route based on comfort. This Plan provides a comprehensive network of comfortable bikeways that help entice new riders, and enhance the experience and safety for existing riders.



Not all community members are able to choose their bicycling routes based on comfort, but instead must ride on high-stress arterials that currently lack bikeways in order to reach their destinations—because no other route exists.

²³ Roger Geller, City of Portland Bureau of Transportation. *Four Types of Cyclists*. <https://www.portlandoregon.gov/transportation/44597?a=237507>; Dill, J., McNeil, N. *Four Types of Cyclists? Testing a Typology to Better Understand Bicycling Behavior and Potential*. 2012.

Bicycle Level of Traffic Stress

For people on bikes, the Level of Traffic Stress (LTS) is the perceived sense of discomfort associated with riding in or next to fast vehicle traffic. Studies have shown that traffic stress is one of the greatest deterrents to bicycling. **The less stressful—and therefore more comfortable—a bicycle facility is, the wider its appeal to a broader segment of the population.** A bicycle network will attract a large portion of the population if it is designed to reduce stress associated with potential motor vehicle conflicts and if it connects people bicycling with where they want to go.

Bikeways are considered low stress if they are on low volume roadways with slow speeds (e.g., a shared, low-traffic neighborhood street) or if greater degrees of physical separation are placed between the bikeway and traffic lane on roadways with higher traffic volumes and speeds (e.g., a separated bikeway on a major street).

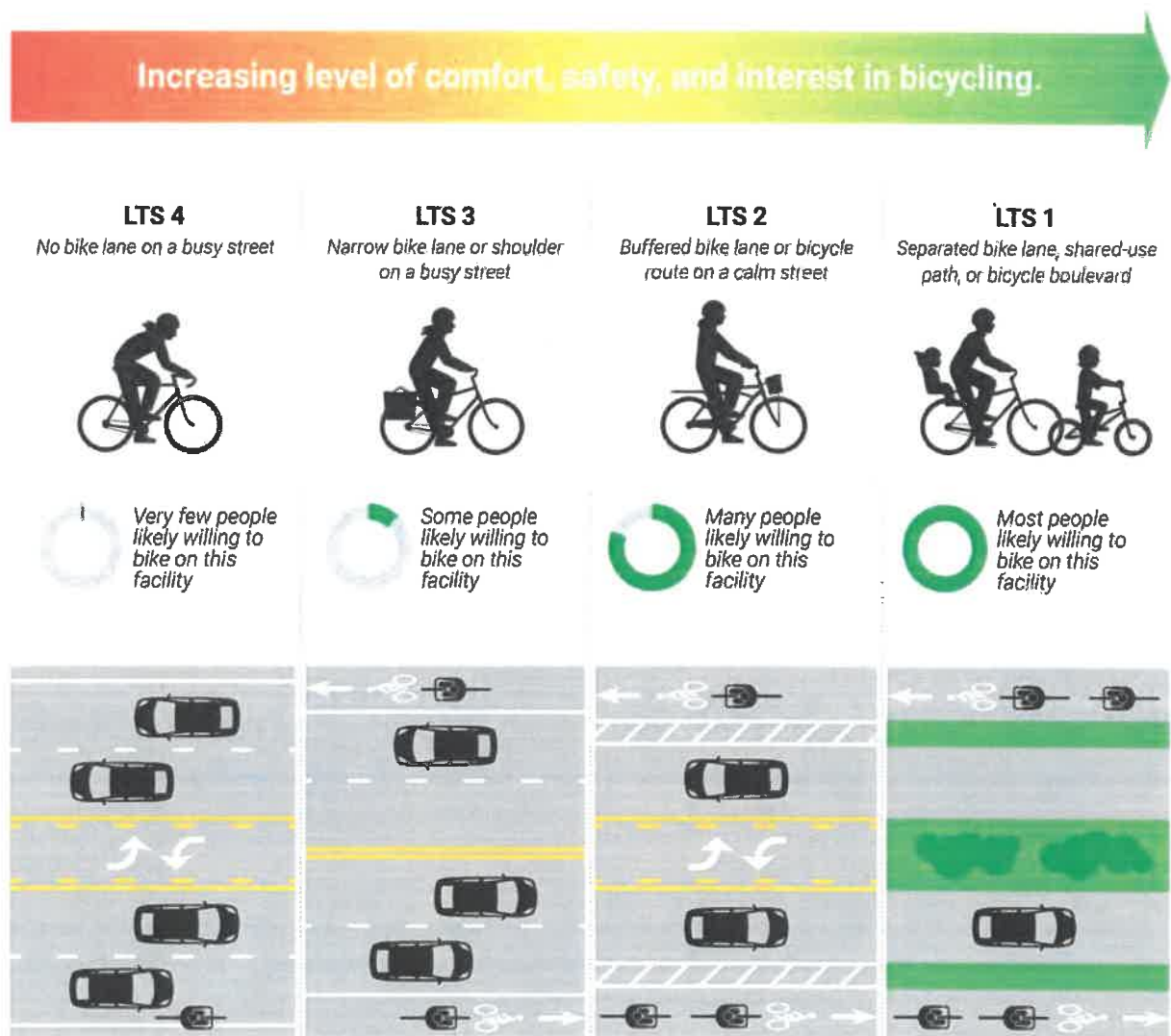
A rating given to a road segment or crossing, the LTS indicates the amount of traffic stress use of a particular facility imposes on bicyclists. The analysis, based on methods developed by the Mineta Transportation Institute, considers posted speed, number of travel lanes, presence of bicycle facility and land use context to calculate a bicyclist's comfort level.

The combination of these criteria creates four levels of traffic stress for the existing roadway network. However, this Plan introduced a fifth level (LTS 1.5) to differentiate between streets without specific bike improvements which nevertheless remain low-speed and low-stress for most people on bikes, versus streets with specific improvements and facilities to create a low-stress experience for riders (LTS 1). The principal of the scale remains the same: the lower the number, the lower the stress and the higher the level of comfort for people on bicycles. LTS 1 and 2 roads are typically the roadways that appeal to the "Interested, but Concerned" cyclists. For this analysis, levels of traffic stress range from 1 to 4:

- **LTS 1 – Most Comfortable:** Strong separation from traffic and improvements for people on bikes. Simple crossings. Suitable for children.
- ***LTS 1.5:** Streets with low speeds and low traffic volumes, but does not feature a bicycle facility.
- **LTS 2:** Physical separation from higher speed and multilane traffic. A level of traffic stress that most adults can tolerate, particularly those sometimes classified as "interested but concerned."
- **LTS 3:** Involves interaction with moderate speed or multilane traffic, or close proximity to higher speed traffic. A level of traffic stress acceptable to those classified as "enthused and confident."

- LTS 4 – Least Comfortable:** Involves interaction with higher speed traffic or close proximity to high speed traffic. A level of stress acceptable only to those classified as “strong and fearless.”
- *Note: LTS 1.5 was introduced for this analysis and is not found within the Mineta Transportation Institute’s approach.*

Figure 13. Bicycle Level of Traffic Stress



Findings

The level of traffic stress scores shown in Figure 14 illustrate the low stress connections and gaps throughout Highland. The Bicycle LTS results map approximates the user experience for the majority of Highland residents, however people may have differing opinions of traffic stress depending on their own experiences. While a majority of Highland's entire network scored a Level 1 and 2 (91% total), these facilities are minor local roads or off-street paths typically surrounded by higher stress arterials where most average adults would not feel comfortable riding. It is important to note that crossing these arterial roads would be required to complete most trips by bicycle in Highland. Therefore, safe crossings of these arterials will be critical in order to develop a comprehensive low stress cycling network in Highland.



Not all residents are ready to brave high-speed roadways on bikes, even when buffered bike lanes are present (such as on Palm Avenue south of Base Line Street, where the posted speed limit is 45 miles per hour).

While the paseos in eastern Highland offer a low stress route that helps cut across these barriers, the majority of residents may not feel comfortable bicycling outside their immediate neighborhood using local streets. This means that getting from residential areas to major destinations may not be possible given most people's tolerance for mixing with traffic—even on streets that have bicycle lanes.

Figure 14. Bicycle Level of Traffic Stress Percentage of City of Highland Streets

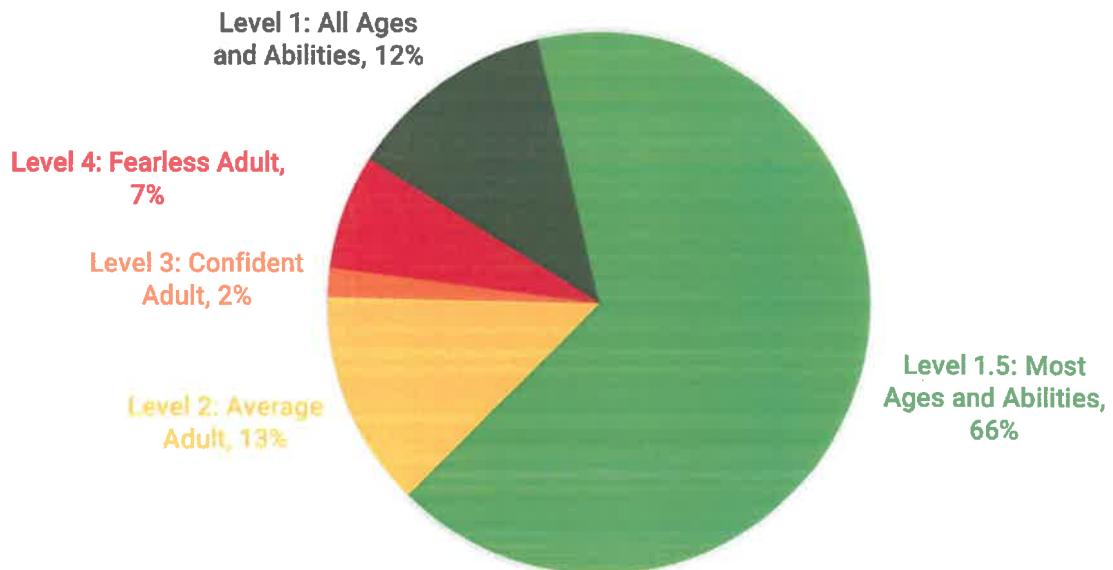
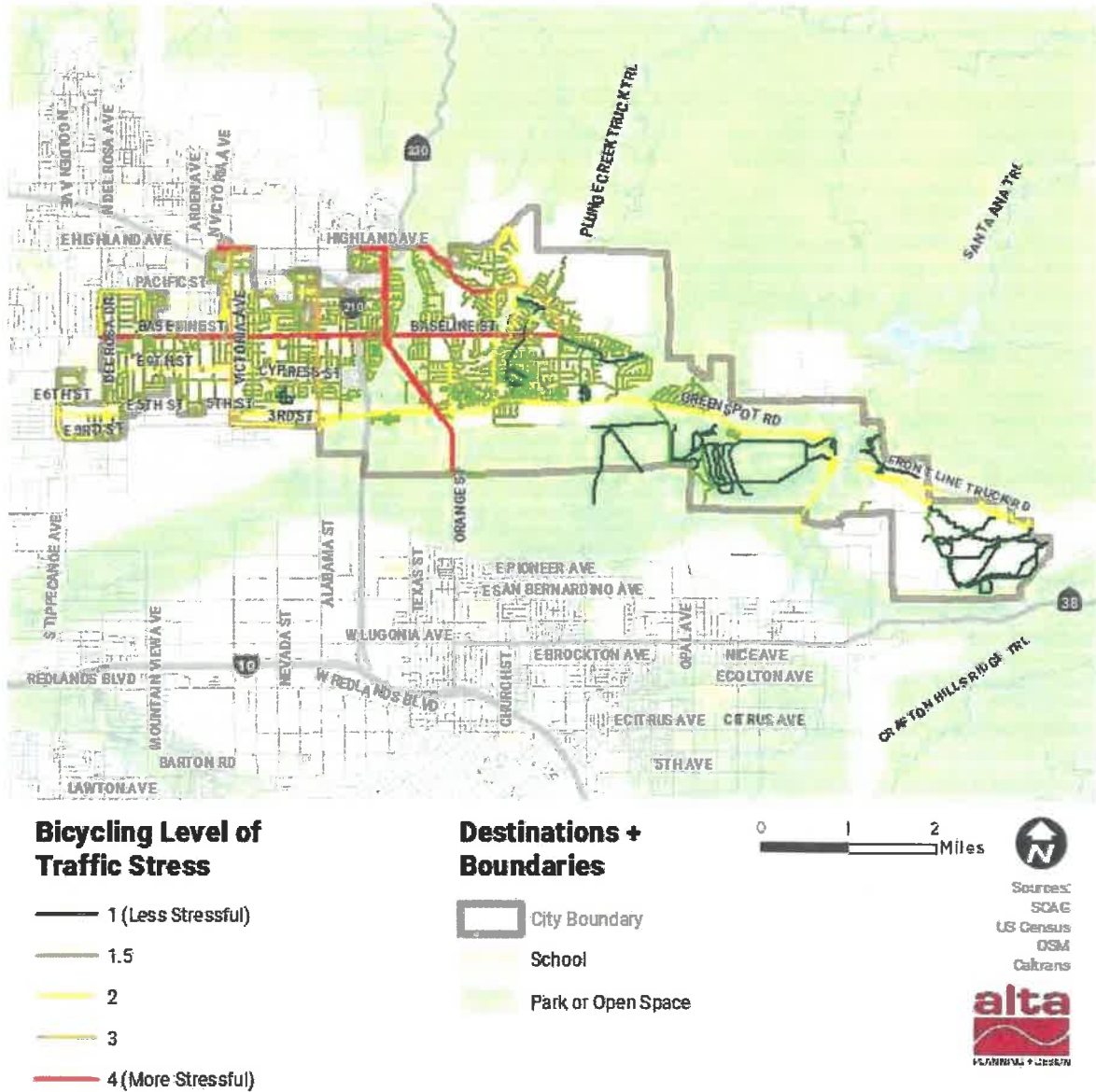


Figure 15. Bicycle Level of Traffic Stress on All Roads



EXISTING BARRIERS

The City of Highland is separated into East and West sections, divided by the 210 Freeway and the wash. There is a lack of connectivity between these two regions, including a lack of trail network connectivity that could help people cross the town and access recreation opportunities. Many streets in the western part of the city lack curb, gutter, and sidewalks. For example, on the intersection of Pacific Street and Orange Street near Highland Pacific Elementary School, the sidewalk is elevated with a large gutter entry way with little protection—where students frequently walk to get to and from school. Within a region that frequently experiences high levels of heat, the lack shade is also a concern for people walking and biking throughout much of the year. Many streets lack trees or other shade structures.

High-volume roadways such as arterials and freeways often act as barriers to walking and biking. However, arterials frequently experience significant volumes of active transportation users as they have many destinations and transit facilities, and are often the most direct route. They also tend to be the most challenging to modify to make safer and more comfortable for active transportation users due to the pressures associated with moving vehicles. As a result, high-volume roadways produce much greater amounts of air pollution than low-volume, local streets. Increased exposure to air pollutants due to proximity to freeways has been tied to higher rates of childhood asthma and other diseases.²⁴ This



Elevated sidewalk with large gutter entry way presents hazardous conditions (Pacific Street near Highland Pacific Elementary School).

²⁴ Gauderman et al. *Childhood Asthma and Exposure to Traffic and Nitrogen Dioxide*. 2005.

Plan acknowledges the complex environmental, public health, and quality of life issues related to active transportation on large roadways and works to improve conditions for all of our residents.

COLLISION ANALYSIS

Data on bicycle- and pedestrian-related collisions can provide insight into locations or roadway features that tend to have higher collision rates, as well as behaviors and other factors that contribute to collisions. These insights will inform the recommendations in this Plan to address challenges facing people bicycling and walking.

Collision data involving people walking and bicycling was acquired from the Statewide Integrated Traffic Records System (SWITRS), where the California Highway Patrol and local law enforcement agencies upload collision reports. Five years of data were evaluated, from January 1, 2014 through December 31, 2018.

A total of 664 collisions were reported in Highland during the study period, 5.1% of which involved people bicycling and 9.2% of which involved people walking. With just over 1% of residents estimated to be walking or biking to work, pedestrians and bicyclists are disproportionately represented in traffic collisions in our community.

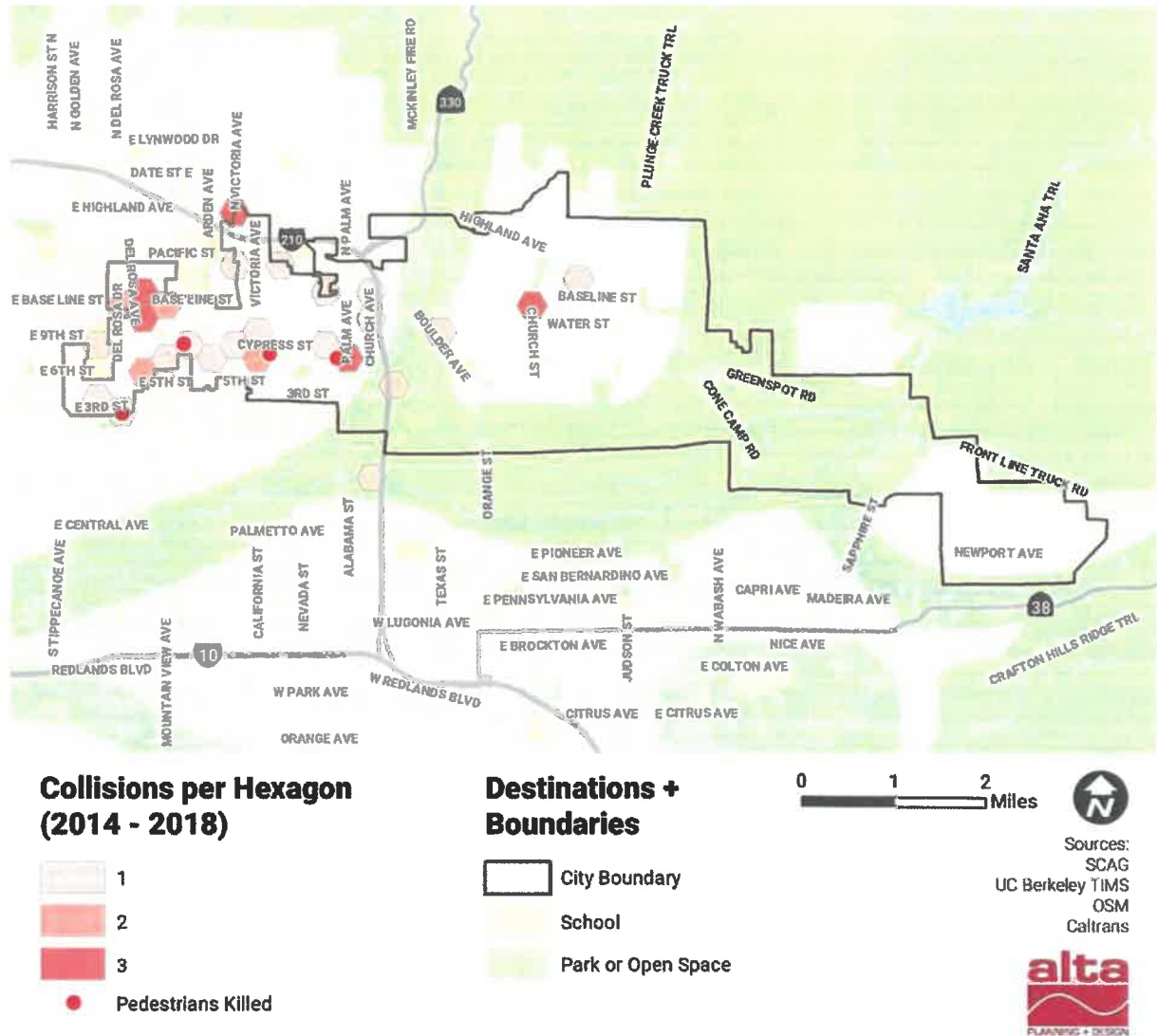
Pedestrian-Involved Collisions

During the study period, 61 collisions in Highland involved a person walking. Four of these were fatal collisions, and over 13 resulted in an injury (see Figure 16). Collisions and fatalities are heavily concentrated in the western region of the city. During the study period, just under 6.6% of pedestrian collisions were fatal. Nearly 21.3% resulted in severe injury, and only about 42% did not result in any injury and were attributed to a pedestrian violation in which they failed to yield the right-of way to vehicles. However, eight collisions (13%) were the result of vehicles failing to yield for a pedestrian in either a marked or unmarked crosswalk. Another eight collisions were attributed to unsafe speed.

Almost 60% of pedestrian-involved collisions took place at night. Approximately 56% of the victims were male. One-third of the collisions were hit-and-runs (18 total). Approximately 22% of victims were between 15 and 24 years of age; **one-third of the victims fell between 45 to 59 years of age.**

- **20 – 24 years:** 8 victims (12.5%)
- **45 – 49 years:** 8 victims (12.5%)
- **50 – 54 years:** 7 victims (11%)

Figure 16. Pedestrian-Involved Collisions



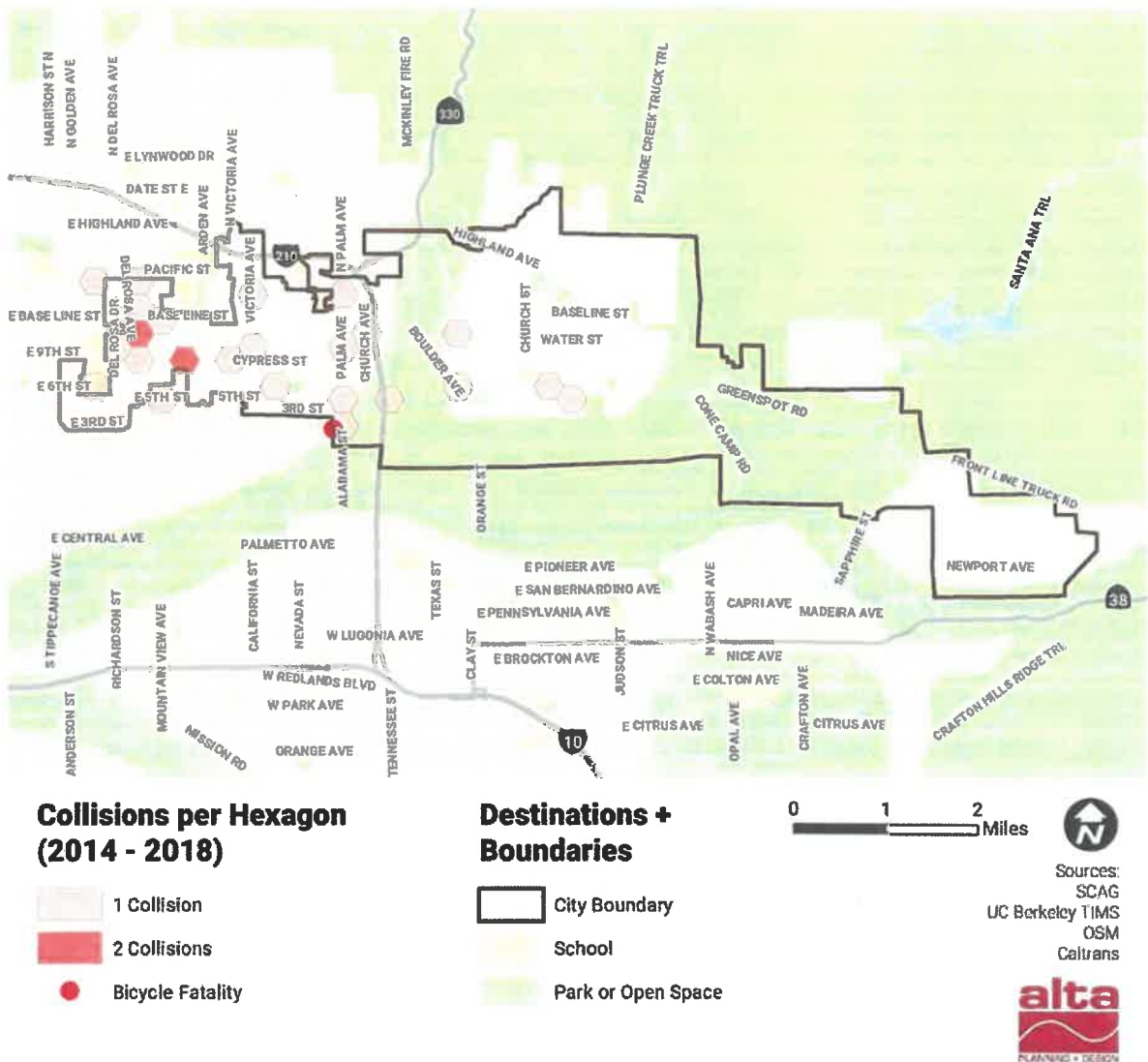
Bicycle-Involved Collisions

During the study period, 34 collisions in Highland involved a person riding a bicycle (see Figure 17). One of these were fatal collisions, and over 3 resulted in an injury. During the study period, just under 2.9% of pedestrian collisions were fatal and nearly 8.8% resulted in severe injury. Similar to pedestrian-involved collisions, bicycle-involved collisions were heavily concentrated in the western region of the city.

Six of the collisions were hit-and-runs. Twenty percent of collisions (7 total) were attributed to traveling on the wrong side of the road, the most common violation cited. Such behaviors, however, can be reduced by adding bicycle lanes or paths that give bicyclists more and safer routes. Around half (17 total) of bicycle-involved collisions occurred during daylight hours during the week. Approximately 76% of the victims were male. **As with pedestrian-involved collisions, the majority of victims were tended to be younger, with 18% of victims age being 14 or younger;** the most common victims were the following ages:

- **Age 14 or younger:** 6 victims (18%)
- **15 – 19 years:** 5 victims (15%)
- **50 – 54 years:** 5 victims (15%)
- **35 – 39 years:** 4 victims (12%)

Figure 17. Bicycle Involved Collisions



NEEDS ASSESSMENT

To further understand existing conditions in Highland, the project team conducted an assessment of health and community conditions related to active transportation using a customized score of the California Healthy Places Index²⁵ (HPI). The HPI, which pools data from 2006 to 2018 depending on the variable and data source, aggregates a collection of community characteristics that predict life expectancy and allow users to see how public health intersects with transportation, climate, and more. Characteristics included in the HPI score consist of social equity, healthcare access, economic, educational, housing, transportation, and environmental factors such as air and water pollutants.

The HPI then generates a composite score based on 25 weighted variables and additional support layers which can be used to compare the relative health impacts of living in different locations throughout California, and later, inform and drive policy decisions. The higher the score, the healthier the community conditions based on 25 community characteristics. The HPI is another tool used in

California's Active Transportation Program grant application program. A census tract must be in the 25th percentile or less to qualify as a disadvantaged community. However, the HPI also offers subcategories and customizable scores that can be adjusted for targeted analyses. The tool allows for analysis at various geographic levels, including census tracts, zip codes, census-designated places, cities, counties, and more.

Overall, the HPI suggests that Highland has healthier community conditions than 27.1% of other California cities. To better understand conditions related to active transportation, we

assessed 26 of the 84 indicators (including decision support layers) impacted by active transportation to create a custom score for Highland. This custom score suggests that Highland experiences healthier community conditions related to active transportation than 29.6% of other cities in California—or worse conditions than 70% of California cities. However, Highland's performance differs for each variable, which are detailed in the following sections on health and built environment.

Highland has healthier community conditions than 27.1% of other California cities.

²⁵ <https://map.healthyplacesindex.org/>

Variables were then assessed by level of concern for this planning effort. Variables in which Highland experiences poorer conditions than 61% or more of other cities in California were given high priority; medium priority was given to variables in which Highland experiences worse conditions than 40% to 60% of other cities; and low priority was given to variables in which Highland experiences poorer conditions than 39% or less of comparison cities. Table 1 illustrates the number of health variables that are high, medium, or low priority consideration during this planning effort. Twenty-two of the 26 health related variables in Highland classify as high priority (85%). Only 8% classify as medium priority and 8% as low priority. Table 2 lists the specific high priority variables.

Table 1. Number of Health Variables of Low, Medium, and High Priority

Category	Low	Medium	High
Physical Activity	1	0	11
Safety	0	0	1
Environment	0	0	5
Health Equity	1	2	5
Total Count	2	2	22
Total Percent	8%	8%	85%

Table 2. High Priority Health Variables

Category	Variables in which Highland experiences worse conditions than 61% or more of California cities
Physical Activity	1. <u>Active Commuting</u>: Low % of workers who walk, bike, or take transit to work 2. <u>Obesity</u>: Higher prevalence of obesity among adults 3. <u>Physical Health Not Good</u>: Higher prevalence of poor physical health 4. <u>Stroke</u>: Higher prevalence of strokes among adults 5. <u>High Blood Pressure</u>: Higher prevalence of high blood pressure among adults 6. <u>Cancer</u>: Higher prevalence of cancer (excluding skin cancer) among adults

Category	Variables in which Highland experiences worse conditions than 61% or more of California cities
	7. <u>Coronary Heart Disease</u>: Higher prevalence of coronary heart disease among adults 8. <u>Diagnosed Diabetes</u>: Higher prevalence of diagnosed diabetes 9. <u>Life Expectancy at Birth</u>: Lower life expectancy 10. <u>No Leisure Time Physical Activity</u>: High % of people who do not exercise or participate in physical activities (outside of their regular job) 11. <u>Heart Attack ER Admissions</u>: High rate of emergency department visits for AMI 10,000 12. <u>Mental Health Not Good</u>: Higher prevalence of poor mental health
Safety	13. <u>Pedestrian Injuries</u>: High rate of severe and fatal injuries, over the past five years, to people walking (per 100,000 people)
Environment	14. <u>Clean Air - Ozone</u>: High ozone concentration (ppm) in summer 15. <u>Clean Air - Diesel PM</u>: High exposure to diesel PM emissions in summer 16. <u>Clean Air - PM 2.5</u>: High concentration of PM 2.5 (very small particles from vehicle tailpipes, tires and brakes, powerplants, factories, burning wood, construction dust, and many other sources) 17. <u>Asthma ER Admissions</u>: High rate of emergency department visits for asthma 18. <u>Asthma</u>: High prevalence of current asthma among adults
Health Equity	19. <u>Above Poverty</u>: Lower % of people earning more than 200% FPL 20. <u>Median Household Income</u>: Lower median annual household income 21. <u>Employed</u>: Lower % of people aged 25-64 who are employed 22. <u>Automobile Access</u>: Lower % of households with access to an automobile 23. <u>Park Access</u>: Lower % of people within walkable distance of a park/beach/open space greater than 1 acre

Category	Variables in which Highland experiences worse conditions than 61% or more of California cities
	24. <u>Retail Density</u>: Lower rate of retail, entertainment, and education employment density on unprotected land 25. <u>Supermarket Access</u>: Lower % of people within walking distance of a supermarket/large grocery store 26. <u>Tree Canopy</u>: Low % of land with tree canopy (weighted by number of people per acre)

Health Assessment

Active transportation is an important element in efforts to improve community health. It has direct and indirect implications on human and environmental health outcomes. The major health benefits of active transportation relate to physical activity, traffic safety, health equity, and environmental conditions (air quality and noise).

Physical Activity

In Highland, 30% of people did not participate in physical activities or exercise, other than their regular job. This exceeds only 87% of cities in California, suggesting that Highland residents could benefit greatly from increased opportunities for physical activity. Only 3% of workers (16 years and older) commute to work by transit, walking, or biking; 74% of the other cities have higher rates of active commuting. Increasing the percentage of active commuters in Highland may help to increase rates of physical activity, especially for those who do not meet the recommended amount via leisure-time activities and exercise.

Health Conditions

Physical activity, whether through leisure time activities, exercise, or active commuting, helps to combat many chronic health conditions. **In Highland, 18% of adults reported 14 or more days during the past 30 days during which their physical health was not good, which is higher than 90% of other California cities. Similarly, approximately 18% of adults reported 14 or more days during the past 30 days during which their mental health was not good – a rate higher than 95% of other California cities.** As a result, both physical and mental health are of high concern in this planning process.

When considering body mass index, 32% of adults in our community have a score greater than or equal to 30.0 kg/m² – a rate that is higher than 90% of other California cities – making obesity another high

priority for the community. In addition, 29% of adults have high blood pressure, 6% of adults have angina or coronary heart disease, 11% of adults have diabetes (other than during pregnancy), and 4% of adults have cancer (except skin cancer). Of these three, diabetes is the only variable for which Highland performs worse than more than 61% of other California cities making it of high concern.

Approximately 11% of Highland residents have asthma – higher than 98% of other California cities. Furthermore, 72 per 10,000 emergency department visits were for asthma, a rate that exceeds 86% of other cities.

Safety

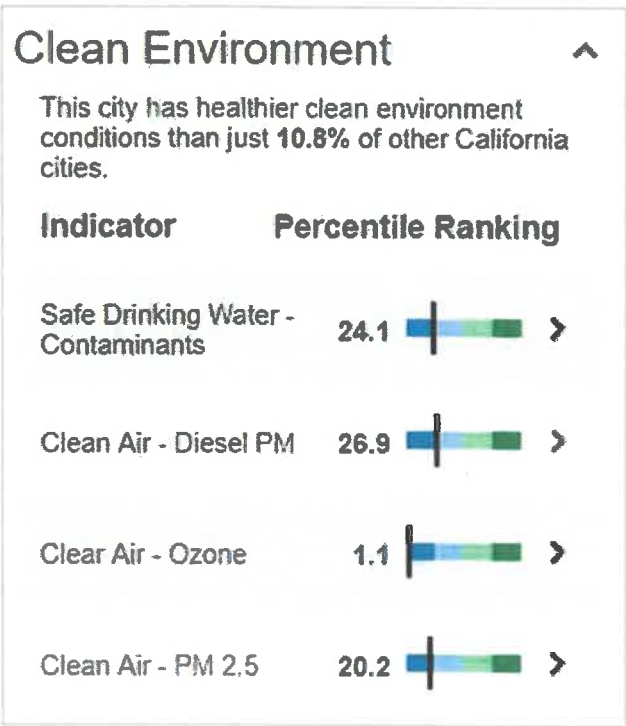
The 5-year annual average rate of severe and fatal pedestrian injuries in Highland per 100,000 people is 3.47, which is a higher average rate than 65% of other California cities. To see more details regarding where pedestrian- and bicycle-involved collisions have occurred in the city, refer to the Collision Analysis.

Environment

Replacing motor vehicle trips with active transportation modes can reduce the vehicle emissions that contribute to poor air quality conditions, and decrease people's exposure to harmful pollutants. **With low rates of active commuting and high rates of vehicle ownership, it is not surprising that Highland has healthier environmental conditions than just 10.8% of other California cities** (see Figure 18).

In fact, the yearly average of fine particulate matter concentration (very small particles from vehicle tailpipes, tires and brakes, powerplants, factories, burning wood, construction dust, and many other sources) is 11.69 µg/m³, which is a higher yearly average than 80% of other California cities. The average daily amount of particulate pollution (very small particles) from diesel

Figure 18. Clean Environment Conditions in Highland Compared to Other Cities in California



sources (for July) is 13.3 kg/day, which is a higher average than 73% of other California cities. **Similarly, Highland has some of the highest rates of ozone in the state.** The average of daily maximum eight-hour ozone concentration during the summer months (May to October) over three years (2012 to 2014) was 0.07 ppm – a rate that exceeds 99% of other California cities.

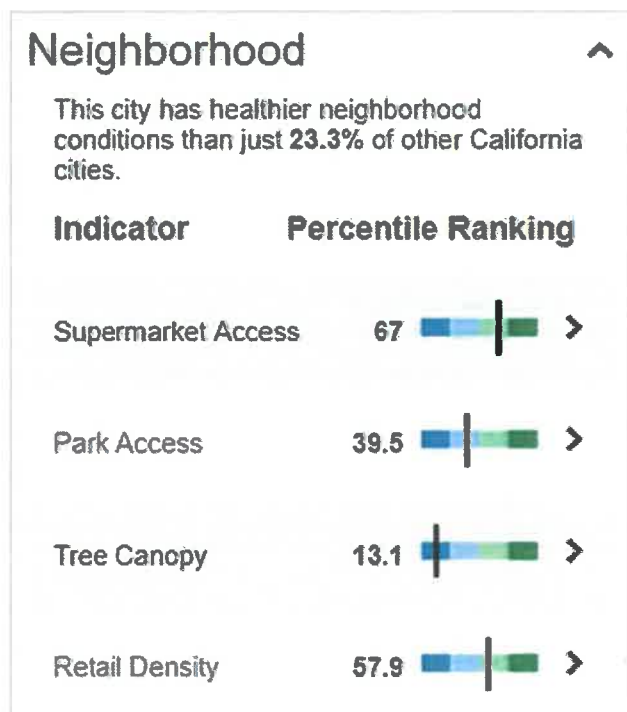
Built Environment Assessment

Changing the built environment can increase opportunities for more active modes of transportation, and therefore physical activity, while also reducing greenhouse gas emissions. Both physical activity and improved air quality reduce one's risk for chronic health conditions and increase life expectancy.

Compared to other cities in California, Highland experiences high levels of supermarket access and retail density. **However, that Highland has one of the lowest tree canopy coverages in the state.** Using data

provided on the California Healthy Places Index website, the current built environment conditions for Highland are described in more detail below.

Figure 19. Neighborhood Conditions in Highland Compared to Other Cities in California



Access to Supermarkets

Having nearby supermarkets that are convenient to access by walking or biking can encourage a better diet and eating behaviors, lower the costs of obtaining food, reduce chronic diseases, and lower the risk of food insecurity. In Highland, 43% of people in urban areas reside less than half-mile from a supermarket or large grocery store. Highland has a lower percentage of people in urban areas who live less than a half mile from a supermarket/large grocery store, or less than one mile in rural areas than 67% of other California cities.

Destinations

Living in a community with a mix of uses and destinations can improve health by reducing household transportation costs, encouraging active transportation, and fostering community connections. One measure of destinations includes employment sites, which serve as destinations for both employees and patrons. In Highland, the number of retail, entertainment, and education jobs per acre on unprotected land amounts to 0.36, which is a lower than 58% of other California cities.

Parks

Parks can encourage physical activity, reduce chronic diseases, improve mental health, foster community connections, and support community resilience to climate change and pollution. In Highland, 53% of people live within walkable distance (half-mile) of a park, beach, or open space greater than one acre. Over 61% of other California cities have higher proportions of people living within walkable distances of parks.

Trees

Trees are beneficial for mental and physical health. Adequate tree canopy can provide shade and cool surrounding areas, reduce stress, and promote health, wellness, and physical activity. They also provide many ecosystem services, including absorbing carbon dioxide and improving air quality. **According to the Healthy Places Index, only 2.83% of land in Highland has tree canopy – an amount that exceeds only 87% of other California cities.** However, this percentage is a likely underestimation of overall tree canopy in Highland, as the Healthy Places Index data only captures trees within the public right-of-way. Although Highland has an arid climate and only gets an average of 13 inches of rain each year, improving tree canopy with climate-adaptive species in key pedestrian-orientated locations is important, particularly for providing shade from the summer sun and heat.

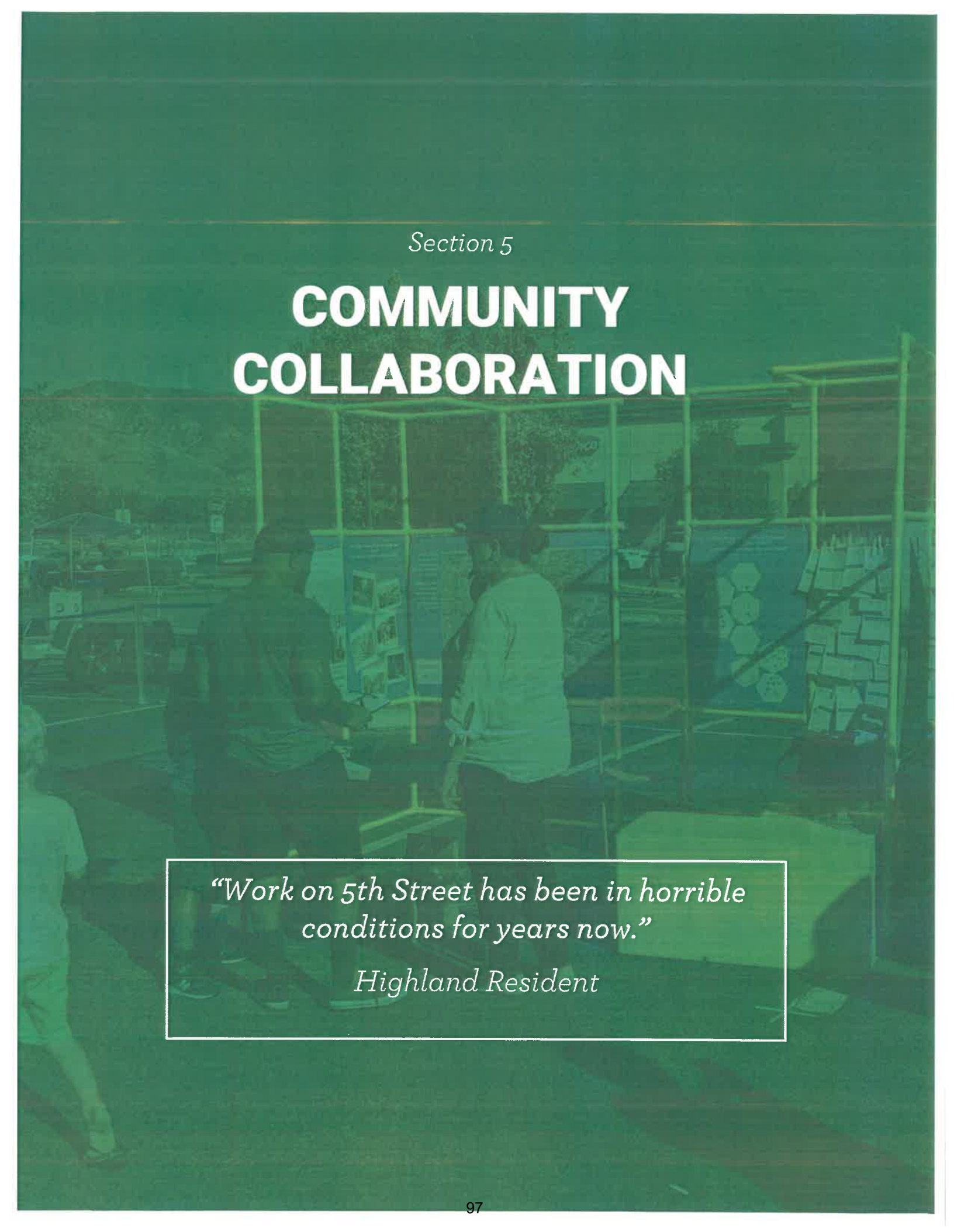
Findings

The top ten variables for which Highland experiences some of the worst conditions among cities in California, as identified in the health and built environment assessments, are (in order of severity):

1. High Rates of Ozone
2. High Rates of Asthma
3. Poor Mental Health
4. Poor Physical Health
5. High Rates of Obesity

6. Low Rates of Leisure Time Activity
7. Low Rates of Tree Canopy
8. High Rates of Asthma ER Admissions
9. High Rates of Strokes
10. High Rates of Particulate Matter (PM 2.5)

The health and built environment assessments highlight the intersections of health and transportation and the potential active transportation has to benefit multiple aspects of our community. Once complete, this Plan will be another extension of our efforts to improve health and wellness in our community.

The background image is a photograph of a community meeting or public consultation session. It is heavily tinted with a dark green color. In the foreground, two people are standing and looking at a large informational display board. To their right, another display board is visible, featuring a diagram with several hexagons. In the background, other people can be seen, and there are more display boards and what appears to be a table with papers. The overall scene suggests a public engagement activity related to a community project or issue.

Section 5

COMMUNITY COLLABORATION

*“Work on 5th Street has been in horrible
conditions for years now.”*

Highland Resident

5. Community Collaboration

Engaging the community has been a top priority throughout the planning process. A variety of opportunities were used to seek input from residents and community members. The plan development process also included extensive coordination with partner agencies such as the Public Works Department and other City departments to ensure this Plan meets community needs, advances initiatives of local and regional partners, and includes projects and programs that can feasibly be implemented. Overall, the project team engaged with stakeholders throughout the development of the Plan in order to:

- **Understand Walking and Biking Needs:** Residents weighed in on current barriers to biking and walking, and what destinations and routes could be made more bikeable and walkable. This information helped the project team develop an understanding of the needs and gaps of the citywide network.
- **Develop a Vision for Active Transportation in the City of Highland:** Stakeholders across different groups weighed in on the vision, policies, and objectives for the Plan, guiding the high-level direction of the Plan.
- **Refine Draft Recommendations:** The City of Highland presented the draft bicycle and pedestrian recommendations developed through the process. Stakeholders and the public helped the City clarify these recommendations, and identified additional areas for improvement.



The City of Highland used multiple avenues to gain authentic and robust community input on this Plan.

This chapter presents an overview of the format and approach for each outreach opportunity, along with a summary of feedback received. Overall feedback concentrated on three key themes (see Table 3).

Table 3. Key Themes from Community Feedback

Topic	What We Heard
Safety	Biking and Walking Feel Unsafe Many community members shared that existing conditions in Highland do not support safe walking and biking, and that the lack of safety prevents them from walking and biking.
Continuity	Biking and Walking Facilities Do Not Get Me to Key Destinations Although community members may feel comfortable walking or biking in their neighborhoods, many shared that the lack of safe, continuous routes discourages them from using biking and walking for transportation.
Comfortable	Biking and Walking Are Not Comfortable Community members from various groups (including residents, members of the CAC, and partner agencies) shared that the city lacks amenities for comfortable walking and biking especially near schools.



Members of the CAC helped identify locations in need of improvement to make it safer and more comfortable to walk and bicycle.

COMMUNITY ADVISORY COMMITTEE

To help guide this planning process, the City of Highland convened a Community Advisory Committee (CAC) at the outset. Various sectors, groups, and stakeholders were invited to join the CAC in order to be able to best articulate the many needs of the community. Altogether, eight people served on the Plan's CAC, representing various city agencies such as Engineer, Public Works, Planning Commission and community groups like the YMCA of the East Valley. The CAC convened six times throughout planning process, helping to shape the vision, analyses, events, partnerships, and recommendations.

EVENTS

Pop-Up Events

During the project, the City engaged the public at three pop-up events in the community:

- **Art Installation:** November 16, 2019, Greenspot Road, 350 estimated attendees
- **Go Human Training 1:** September 10, 2019, near Boulder Avenue, 40 estimated attendees
- **Go Human Training 2:** March 4, 2020, Real Journey Academies Entrepreneur High School, 5 estimated attendees
- **Total Pop-Up Event Attendees:** 355



To ensure outreach events were accessible and family-friendly, community workshops were facilitated in English and Spanish and included transportation-based activities for children.

Art Installation

To engage as many members of the public as possible, the project team collaborated with an existing community event, Discover Highland Event, early on in the planning process. The project team used two interactive activities to hear from residents about how we can improve biking and walking: a survey on high-priority streets, a map where participants could spatially identify where they currently face walking and biking challenges in Highland, and feedback board.

SURVEY: HIGH PRIORITY STREETS?

When asked which streets in the city should be considered as highest priority for improvements for walking and biking, participants selected:

- 45% of respondents:
 - Base Line Street
 - 5th Street
- 25-30% of respondents:

- Palm Avenue
- Victoria Avenue

SURVEY: WHAT IMPROVEMENTS WOULD YOU LIKE ON YOUR STREETS?

When asked what improvements in the city should be considered for walking and biking, participants selected:

- 54% of respondents:
 - Street Lights
- 33% of respondents:
 - Bike Lanes
 - Wider Sidewalks
- 5% of respondents
 - Repaving of Roads

FEEDBACK BOARD: HOW WOULD YOU LIKE TO GET AROUND?

A popular activity among the kids at the event, the feedback board invited children to place a green sticker on how they currently get to school and a pink heart on how they would like to get to school. Overwhelmingly, most participants drive as their current mode of travel. However, only 9% of people prefer driving. Instead, most participants would like to bike, take public transit, or walk to their destinations.



Kids expressed a desire to bike, take public transit, and walk more to school.

Go Human Trainings

The project team conducted two Go Human Trainings to familiarize community members with the concept and gather feedback in order to build capacity for future efforts. Highland Go Human trainings were rolled into the city's standing COPS (Community Oriented Problem Solving) meeting and school sites, which served as an opportunity for city staff, police, elected officials, and school district representatives to discuss ongoing projects, identify perceived issues within the community, and collaboratively develop solutions. The working group expressed concern on pedestrian and cycling access around the city's schools. Some of the suggestions included: sidewalk pavement, mid-block crossing (possibly raised) near school entrances, continental crosswalks, and Class II bike lanes near Highland Grove Elementary School and Beattie Middle School.

Highland Go Human Training 1

September 10, 2019



Participants suggested sidewalk pavement, mid-block crossings, and high-visibility crosswalks during Go Human Training gatherings.

Open House

The City convened one open house walk audit during the planning process to gather in-depth community input and refine recommendations.

- **Walking Tour:** February 14, 2020, Palm Avenue
- **Attendees:** 8

Walking Tour

To help better understand existing conditions along one of the high-priority corridors, the project team facilitated a walk audit to evaluate existing conditions along Palm Avenue between Base Line Street and Pacific Street. The first set of questions presented seven prompts about existing conditions related to shade, sidewalks, crossings, lighting, bicycle facilities, and overall perception of safety. The second section included three open-ended questions about additional suggestions and comments.

Overall, key concerns highlighted during the walking tour include:

- Lack of facilities for biking or walking
- Lack of shade
- Street pavement in poor condition
- Curb ramps and sidewalks are intermittent throughout the corridor
- Car speeding

Altogether, these conditions resulted in an overwhelming consensus that people feel unsafe walking or biking on Palm Avenue. Participants expressed the need to coordinate and cooperate in this area, as this segment of Palm Avenue is part of the the City of Highland, the City of San Bernardino, and the County of San Bernardino.



The City of Highland utilized a variety of events to reach as many residents as possible.



Much of the western side of Palm Avenue between Main and Messina Streets lack sidewalks.

INTERACTIVE MAP

An interactive mapping tool was posted on the City's website and used throughout development of this Plan to gather input and feedback from the community directly on a map of the city.

In early project phases from November 2019 through July 2020 community members were encouraged to draw routes or place pins on the map and add comments to identify desired walking or bicycling improvements, challenging locations, and other information about the walking and bicycling environment. This input informed the recommended bicycling and walking network improvements.

- Make it safe by improving connections to school and community destinations
- Complete sidewalks throughout the community
- Keep the streets and sidewalks clean
- Improve pavement conditions throughout the City

REFINING THE DRAFT PLAN

After the preliminary recommendations had been developed, the project team released the draft Plan for public comment from the end of September through October 2020. In addition to uploading the draft Plan to the project website, the team also utilized a suite of tools to capture the community's feedback on the draft Plan and preliminary recommendations.

Curbside Display

The project team created "Curbside Display" highlighting the draft Plan and recommendations. The "curbside display" for the plan was a large banner that was on Base Line Street in the middle of the business district. The displays were posted during December, providing residents, workers, business owners and other stakeholders with notice about the Plan.

Recommendations Survey

To capture feedback on elements of the draft Plan and key projects, the project team also developed a survey that was distributed via the project website and digital ads through Facebook. 69 residents completed the recommendations survey. This feedback was used to help refine the draft Plan and preliminary recommendations.

Virtual Town Hall + Office Hours

Finally, the project team hosted a virtual town hall on October 13, 2020. There were 4 residents tuned in to the live town hall meeting, during which the project team discussed the draft Plan, listened to feedback, answered questions about the preliminary recommendations, and presented the recommendations survey using interactive polling. A recording of the virtual town hall was posted to the project website. To augment these web-based efforts, the project team also hosted “Office Hours” on October 15, 2020. The Office Hours allowed residents to call into dedicated phone lines to learn about the draft Plan and provide input.

What did we hear?

Community members shared a variety of feedback during the public comment period. Key themes include:

- We need more pedestrian facilities in western Adelanto – especially sidewalks.
- Residents mentioned speeding was an issue, especially for those riding bikes.
- More walking paths for recreation and exercise but they need to be clean and safe..
- Fix existing streets – walking and riding on them is dangerous especially in places that don't have existing sidewalks.

“More sidewalks in western Highland would be a great addition”. – Survey Respondent

The project team revised the Plan to address these concerns and reflect community suggestions as best as possible.

MEDIA

For all community outreach opportunities, including the online survey and interactive mapping tool, the City leveraged existing website, social media accounts, and newsletter mailing list to share information about the Plan and to encourage our residents to engage with the project.

Website

The City created a section on the website for this Active Transportation Plan. All online communications and project flyers pointed to this website, where community members were able to learn about the

planning process, see upcoming outreach events, and download draft maps and other deliverables at key milestones.

Social Media

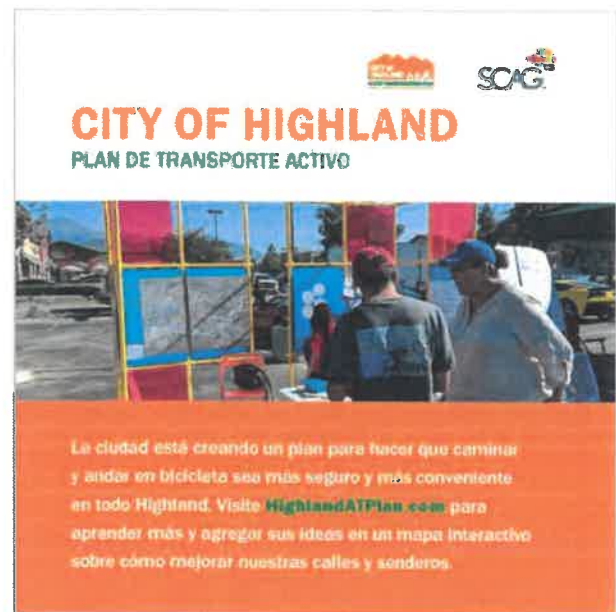
The City has nearly 16,000 followers on Facebook and over 34,500 subscribers on Nextdoor. Throughout the planning process, posts on these platforms notified residents of upcoming events, draft documents available for review, online engagement tools, and other project milestones.

Newsletter

In addition to a strong social media presence, the City sent email newsletters to more than 11,000 subscribers. These newsletters were used to announce open houses and other events, encourage participation, and share updates about the project.

Promotional Material

An information card was also created in both English and Spanish with the project website and Community Open Houses listed. The cards were available at all outreach events and placed at various businesses, community centers, and libraries throughout the City of Highland.



The City of Highland used bilingual printed and digital materials to share information about the Plan, events, and opportunities for input.

KEY NEEDS IN OUR COMMUNITY

This Plan identifies many opportunities to improve mobility and support the goals established in Chapter 2: The Vision. Assessing current conditions is a key step to developing recommendations for where and how to invest in infrastructure and programs that promote walking and biking as common and

convenient modes of transportation. The following key findings from our review of existing conditions data and public input will help guide the recommendations process:

- Highland's existing pedestrian and bicycle networks are fragmented and incomplete. Much of our existing facilities are concentrated on the eastern portion of our city, where median household incomes are higher; access to automobiles is higher; concentration of youth is lower; and fewer people identify as non-white compared to the rest of the city.
- A network of relatively low-stress streets is interrupted by several high-stress corridors which inhibit walking and biking, and make connecting to key destinations such as transit, schools, jobs, and parks difficult.
- Collisions involving pedestrians and bicycles are frequent and tend to occur in the western part of the city, where there are few bike lanes, gaps in sidewalks, and many unmarked or low-visibility crosswalks.
- Providing safe access to walkable and bikeable routes near schools will be an important aspect of the Plan and one that will help expand mobility options for residents and commuters.
- In part due to adjacent industrial activity and proximity to regional highways, community members are overburdened with poor air quality. Coupled with high rates of asthma, poor air quality, and high concentrations of ozone makes active transportation safer and more appealing as a means to help reduce transportation-related emissions is imperative.
- Much of Highland qualifies as "disadvantaged" according to CalEnviroScreen 3.0, and supported by the findings of the health and built environment assessments. The Equity Framework outlined in Chapter 2 will continue to be a guiding principle as we move forward in this planning process and begin to develop recommendations that serve our most vulnerable populations.

Section 6

STREET RECOMMENDATIONS

“The bikes are fine, they aren’t killing anyone. Please don’t force people to drive to get anywhere. Make drivers more responsible for their actions and slow down the roads so drivers kill fewer people.”

Highland Resident

6. Street Recommendations

This chapter introduces the bicycle and pedestrian infrastructure and supporting amenities that the City of Highland intends to implement in the coming years, and the overall strategy employed in evaluating which type of facilities should be recommended at specific locations.

The following recommendations are considered planning-level meaning they will be used as a guide when implementing projects. In some cases, traffic impact analysis and more detailed design analysis will be required to evaluate specific site conditions and develop designs that reflect conditions and constraints.

HOW WE DEVELOPED RECOMMENDED PROJECTS

Developing recommendations is a multi-step process that requires understanding community feedback, existing conditions, and project feasibility, among many other factors (see Figure 20). Key themes from the public input guided our overall recommendations (see Table 4). Various outlets allowed for public desire for new and improved bicycle and pedestrian facilities to be voiced and recorded throughout the development of the Plan: community meetings and events, the online public input map, and the community survey. Roadways and areas that were mentioned multiple times across different outreach methods were examined as high priority for inclusion in the recommended projects.



The City listened to community members throughout this planning process, and used their input to develop the recommended active transportation network.

Figure 20. Network Development Process

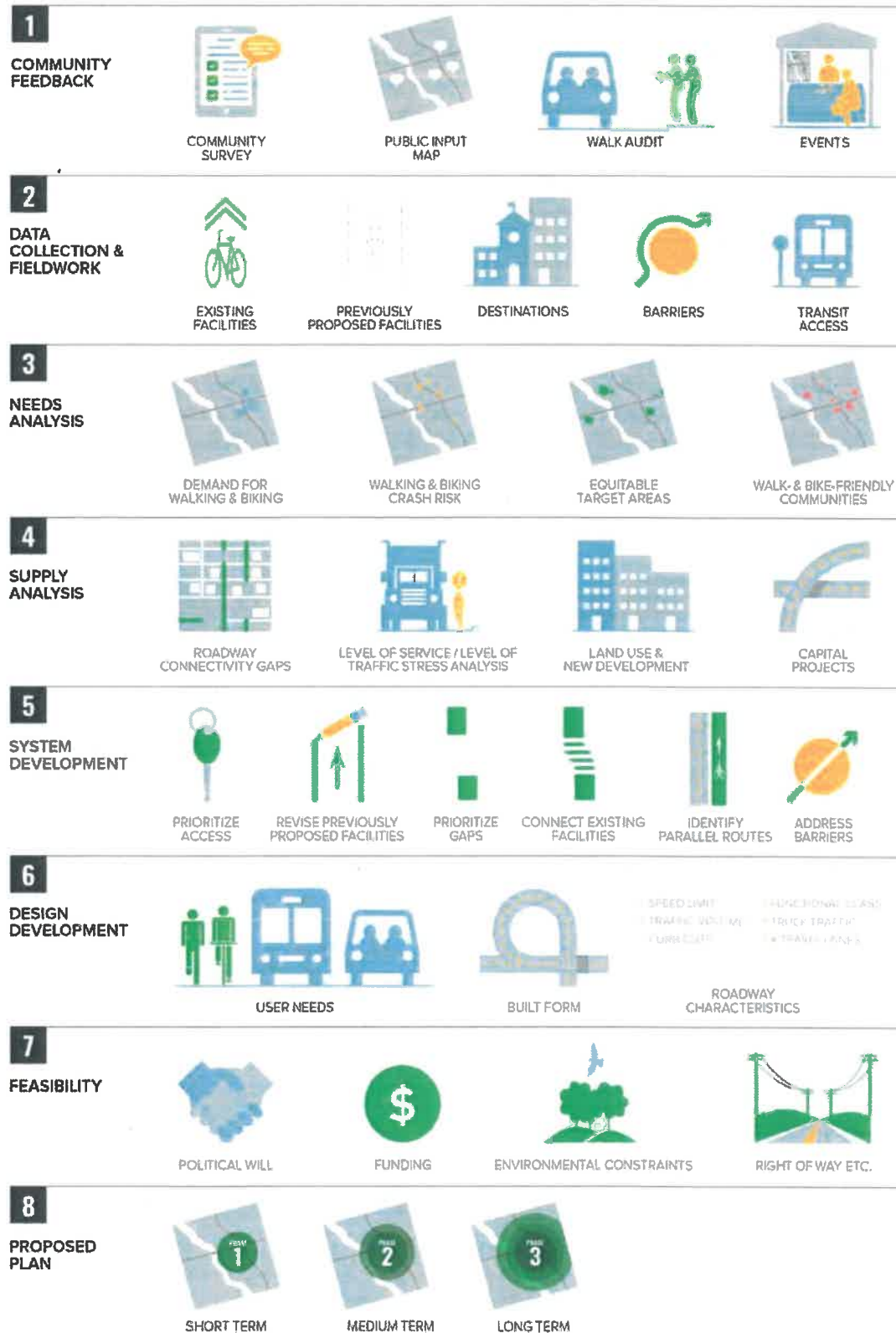


Table 4. Public Input Guiding Network Recommendations

What We Heard	What We Propose
Access is limited	Make it Accessible Multiple cross-town corridors that help people bicycle and walk safely to schools, parks, commercial centers, the library, and other key destinations from as many parts of Highland as possible.
Conditions do not support safe walking and biking	Make it Safe New bikeways and pedestrian interventions in high-collision corridors help improve safety. A complete network of active transportation facilities provides safer options for all roadway users throughout the community.
Car speed and lack of amenities for comfortable walking and biking	Make it Calm Install marked crossings, roundabouts, stop signs, and other traffic calming measures to deter speeding. Consider installing additional amenities such as benches.

HOW RECOMMENDED PROJECTS ADVANCE OUR GOALS



Safety & Health

Network recommendations address the most critical safety issues and prioritize improvements along high-injury corridors and at intersections.



Access & Comfort

Network recommendations create continuous walking and cycling routes throughout the community, connecting neighborhoods to major destinations and to one another.



Affordability

Network recommendations increase the availability of affordable mobility options, particularly for low-income neighborhoods.



Enhance the Network

The Plan provides a roadmap for achieving a complete and comfortable active transportation network.

Bicycle Facility Types



CLASS I

Shared-Use Path

- Paths completely separated from motor vehicle traffic used by people walking and biking.
- Comfortable for people of all ages and abilities.
- Typically located immediately adjacent and parallel to a roadway or in its own independent right-of-way, such as within a park or along a body of water.



CLASS II

Bicycle Lane

- A dedicated lane for bicycle travel adjacent to traffic.
- A painted white line separates the bicycle lane from motor vehicle traffic.



CLASS IIB

Buffered Bicycle Lane

- A dedicated lane for bicycle travel separated from vehicle traffic by a painted buffer.
- The buffer provides additional comfort for users by providing space from motor vehicles or parked cars.



CLASS III

Bicycle Route

- A signed bike routes that people biking share with motor vehicles.
- Can include pavement markings.
- Comfortable facility for more confident bicyclists.
- Recommended when space for a bike lane may not be feasible.



CLASS IIIB

Bicycle Boulevard

- Calm, local streets where bicyclists have priority but share roadway space with motor vehicles.
- Shared roadway bicycle markings on the pavement as well as traffic calming features such as speed humps and traffic diverters to keep these streets more comfortable for bicyclists.
- Comfortable facility for bicyclists with wider range of abilities.



RECOMMENDED BICYCLE PROJECTS

Prior to embarking on this planning process, the City of Highland had approximately 21.67 miles of existing bikeways. An additional 54.9 miles are proposed in this Plan, including over 26.2 miles of off-street Class I paths and over 12 miles of Class IIB buffered bike lanes. The majority of recommended bikeways are new projects where bikeways do not exist today, while a portion include recommendations to upgrade an existing or previously planned bikeway. Recommended bicycle projects are shown in Figure 22, with mileage highlighted in Table 5 and Figure 21. In addition to the recommendations below, there is an existing network of low-stress neighborhood streets that provide local access to destinations. The low-stress network of neighborhoods streets, illustrated in Figure 16, connects to the recommend projects to complete the overall network for the City of Highland.

Table 5. Miles of Recommended Bikeways by Type

Bikeway Class	Name	Proposed (miles)
Class I	Shared Use Path	26.2
Class II	Bike Lane	7.8
Class IIB	Buffered Bike Lane	12.8
Class III	Bicycle Route	3.5
Class IIIB	Bicycle Boulevard	4.6
TOTAL		54.9

Figure 21. Length of Recommended Bicycle Network

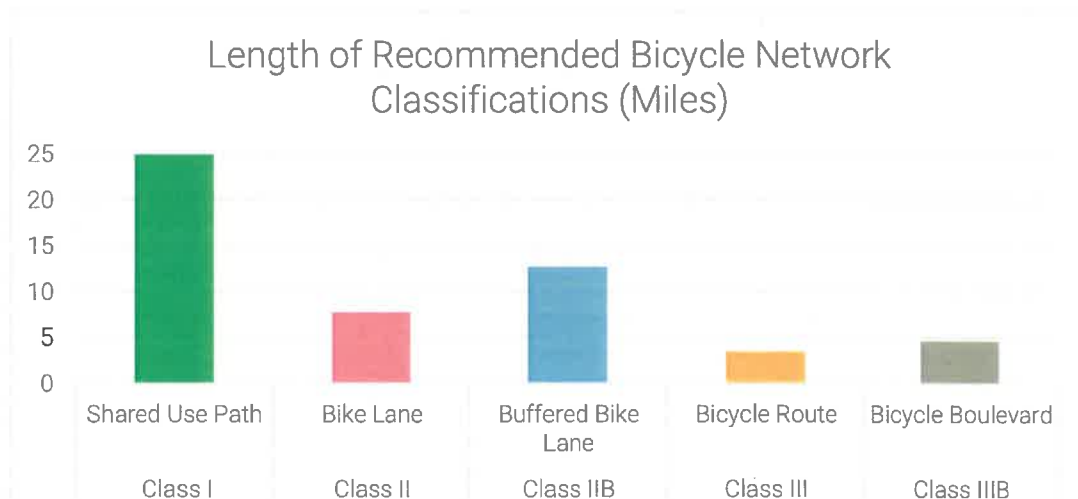


Figure 22. Recommended Bicycle Projects

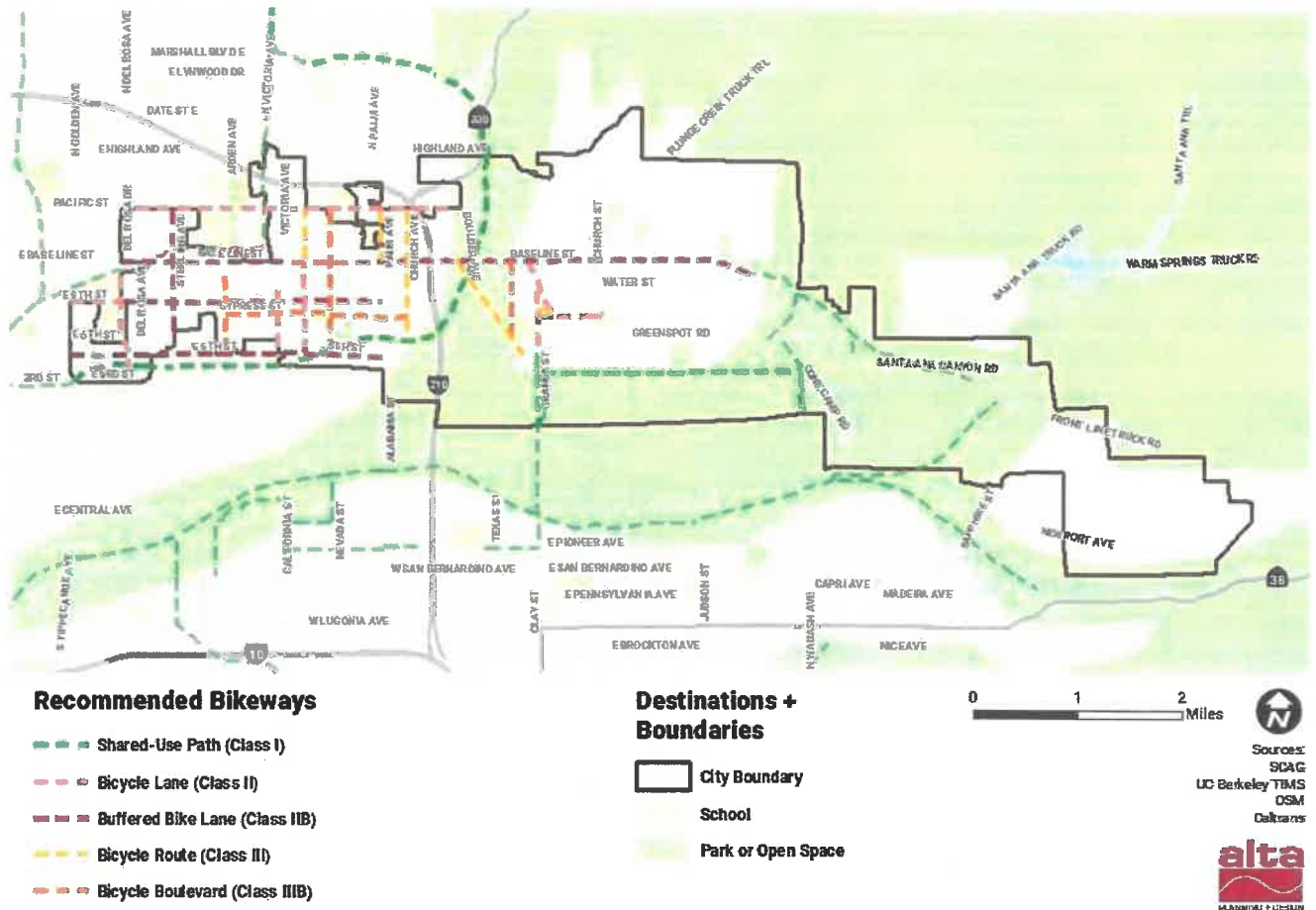


Table 6. Recommended Bicycle Projects

Corridor	From	To	Facility Type	Length (Miles)
5th St	Tippecanoe Ave	Palm Ave	2B	2.99
9th St	Tippecanoe Ave	Del Rosa Dr	2	0.49
9th St	Del Rosa Dr	Palm Ave	2B	2.50
Base Line St	Del Rosa Ave	Tuolumne Ln	2B	6.09
Boulder Ave	Base Line St	Greenspot Rd	3	1.12
Central Ave	Pacific St	5th St	3B	1.39
Church St	Pacific St	5th	3	1.25
City Creek Trail	3rd St	Highland Ave	1	3.27
City Creek Trail	Tippecanoe Ave	Sterling Ave	1	0.73
City Creek Trail	Sterling Ave	Victoria Ave	1	14.32
Cone Camp Rd	Greenspot Rd	South City Limit	1	0.38
Cunningham Ave	Base Line St	5th	2	0.88
Cypress St	Lankershim Ave	Church Ave	3B	1.76
Del Rosa Dr	Paloma St	3rd St	2	1.04
Lankershim Ave	Olive St	5th St	3B	0.75
Love St	Church St	Elder Gulch Paseo	2	0.12
North Fork Trail	Cone Camp Rd	Tuolumne Ln	1	1.38
North Fork Trail	Base Line St	Greenspot Rd	1	1.87
Olive Street	Pacific St	Base Line St	3	0.50
Orange St	Greenspot Rd	South City Limit	1	0.72
Orange Street	Streater Ave	Greenspot Rd	2	0.61
Pacific St	Del Rosa Dr	210 Freeway	2	2.71
Pacific St	210 Freeway	Grove Ave	2	0.41
Palm Ave	Pacific St	Base Line St	3	0.50
Santa Ana River Trail		Greenspot Rd	1	1.05
Sterling Ave	Pacific St	7th St	2B	1.17
Streater Avenue	Base Line St	Church St	2	0.92
Tonner Dr	Orange St	Streater Ave	3	0.16

Corridor	From	To	Facility Type	Length (Miles)
Orange to Cone Camp Trail	Orange St	Cone Camp Rd	1	2.48
Victoria Ave	Sparks St	5th St	2	0.60
Webster St	Base Line St	Boulder Ave	3B	0.74
TOTAL				54.9

Pedestrian Facility Types



Sidewalks & Paths

- Completely separated from motor vehicle traffic.
- Used by people walking or using mobility devices such as wheelchairs.
- Sidewalks are typically located immediately adjacent and parallel to a roadway. Shared-use paths can be located in their own independent right-of-way, such as within a park or along a body of water.



Crossing Facilities

- Make crossing the street at intersections and midblock safer and more comfortable.
- High-visibility crosswalk markings are more visible to approaching vehicles and have been shown to improve yielding behavior.
- Advance yield markings, or "shark teeth," warn drivers they are approaching a crosswalk.



Curb Treatments

- Curb ramps allow users of all abilities to make the transition from the street to the sidewalk. They are required by the Americans with Disabilities Act (ADA) at all crosswalks, including those that are unmarked.
- Curb extensions create safer and shorter crossings for pedestrians. They can help slow vehicle traffic by visually narrowing the roadway. They also increase the available space for street furniture, plantings, and street trees.



Beacons & Signals

- Beacons and signals both indicate to drivers that someone may be crossing the street.
- Make crossing the street safer and more comfortable.
- Pedestrian countdown signals create a more predictable crossing environment and give adequate warning to pedestrians attempting to cross a roadway.
- Leading pedestrian intervals allow a pedestrian to begin crossing the street before the traffic signal turns green.



Traffic Calming

- Encourage drivers to travel at slower speeds.
- Some treatments alter the configuration of a roadway, while others change how drivers perceive and respond to a street.
- Can be used at targeted locations such as a dangerous intersection, or along corridors.



Pedestrian-scale Lighting

- Improves visibility for people walking, as opposed to street lights intended to light the roadway.
- Additional care and emphasis on pedestrian lighting should be taken at and near crosswalks.



RECOMMENDED PEDESTRIAN PROJECTS

During outreach, almost all participants indicated that they feel 'unsafe' walking in Highland. The proposed pedestrian projects provide a variety of options for people walking at locations throughout the city for people of varying abilities and ages. When making recommendations, projects that connect key community destinations like schools, parks, and commercial centers were prioritized.

In general, recommended pedestrian projects aim to improve safety and comfort throughout Highland. The pedestrian projects recommended in this Plan fall into one of seven categories:

- **Sidewalks & Paths:**
 - **New sidewalks/paths** that make walking along the street safer, more comfortable, and accessible for people using mobility devices
 - **Sidewalk gap closures** to ensure people have comfortable and continuous routes to their destinations
 - **Sidewalk resurfacing and widening** improve our existing network and ensure access for people of all ages and abilities
- **Crossing Facilities:**
 - **Crossing facilities** that make crossing the street at intersections and midblock easier, including pedestrian refuge islands, high-visibility continental crosswalks and advance yield markings
 - **Additional treatments to enhance accessibility** including audio devices and pedestrian wayfinding
- **Curb Treatments:**
 - **Curb treatments** such as curb extensions and curb ramps that increase accessibility for people crossing the street, help calm traffic, and reduce crossing distances
- **Beacons & Signals:**
 - **Beacons and pedestrian activated warning devices** to help people safely cross the street at midblock or uncontrolled locations, particularly where high traffic volumes or speeds are prevalent
 - **Modifications to existing traffic signals** to include pedestrian countdown timers, automatic pedestrian phases and a leading pedestrian interval to allow a pedestrian to begin crossing before traffic signals change to green

- **Traffic Calming:**
 - **Traffic calming facilities** such as Traffic Circles, chicanes and speed tables and/or humps that encourage drivers to travel at a speed appropriate for the surrounding land uses and users
- **Pedestrian-Scale Lighting:**
 - **New pedestrian-scale lighting** to improve visibility for people walking, as opposed to street lights at heights and directions intended to light the roadway for motorists
- **Green Infrastructure:**
 - **Trees, landscaping, stormwater capture and other efforts** to provide shade, increase habitat, enhance the overall sense-of-place, and improve comfort for people walking and biking

Improving school routes was a priority based on community feedback during outreach. Improved crossings near parks and commercial centers along Base Line Street will offer better access for people shopping and dining and strengthen the local economy. At various intersections and midblock locations, new or updated crosswalks would improve conditions for people crossing the street. At midblock and uncontrolled intersections, advance yield markings and pedestrian signals would increase the visibility of people crossing the street. Curb extensions would also increase the visibility of pedestrians, shorten crossing distances, and reduce vehicle speeds. Further, at select major intersections in areas with high volumes of foot traffic, leading pedestrian intervals are recommended to give people crossing the street priority and to reduce conflicts with turning vehicles.

Class IIIB bicycle boulevards are made more comfortable with additional pedestrian improvements. For example, along Central Ave facilities such as curb extensions, traffic circles, and bus benches would help reduce speeding and cut-through traffic, increasing comfort and safety for people walking and biking.

Recommended pedestrian facilities are shown in Figure 23. Also, Figure 24 provides a closer look at the western portion of the City's pedestrian recommendations.

Figure 23. Recommended Pedestrian Projects

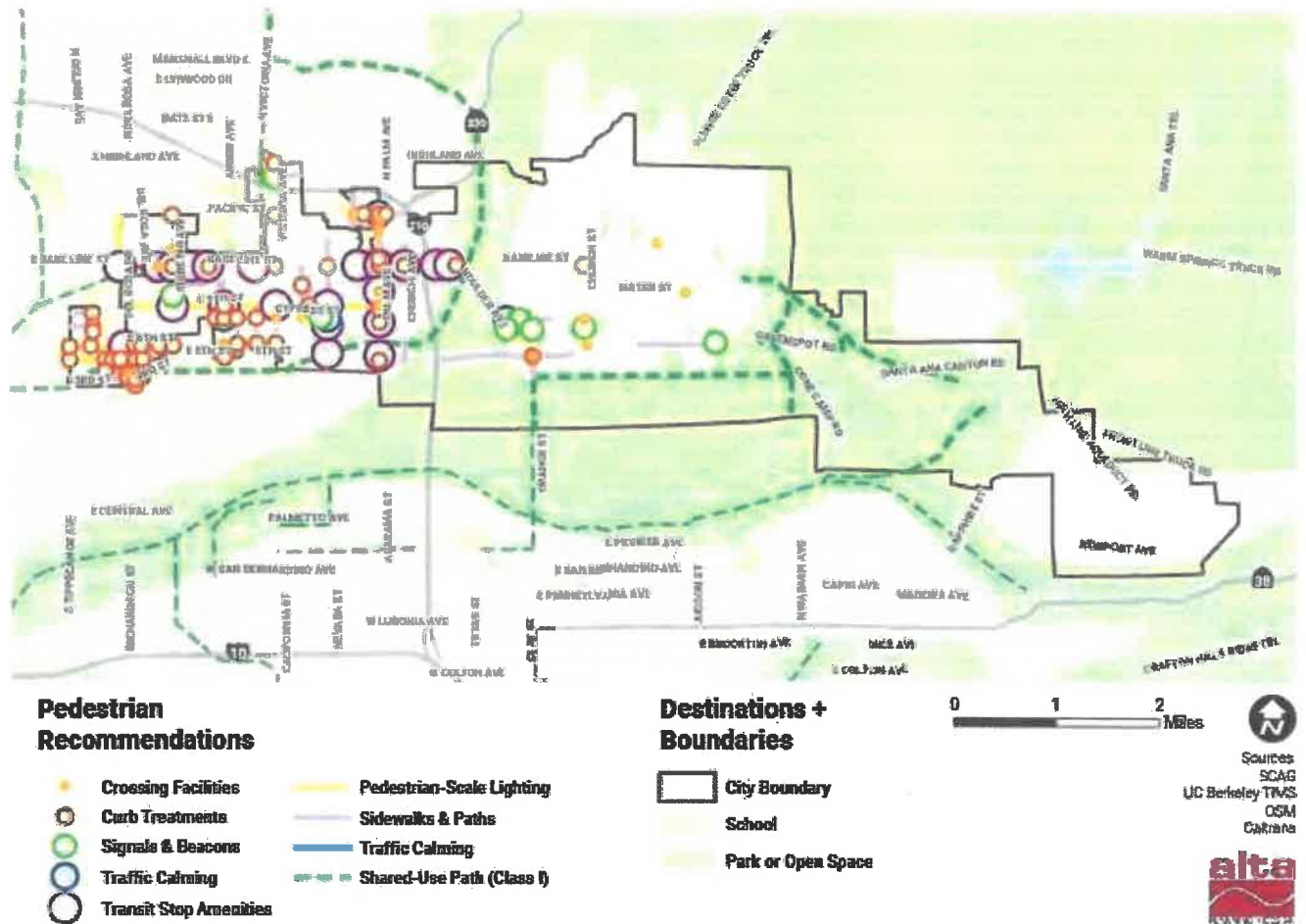


Figure 24. Recommended Pedestrian Projects – Western Highland

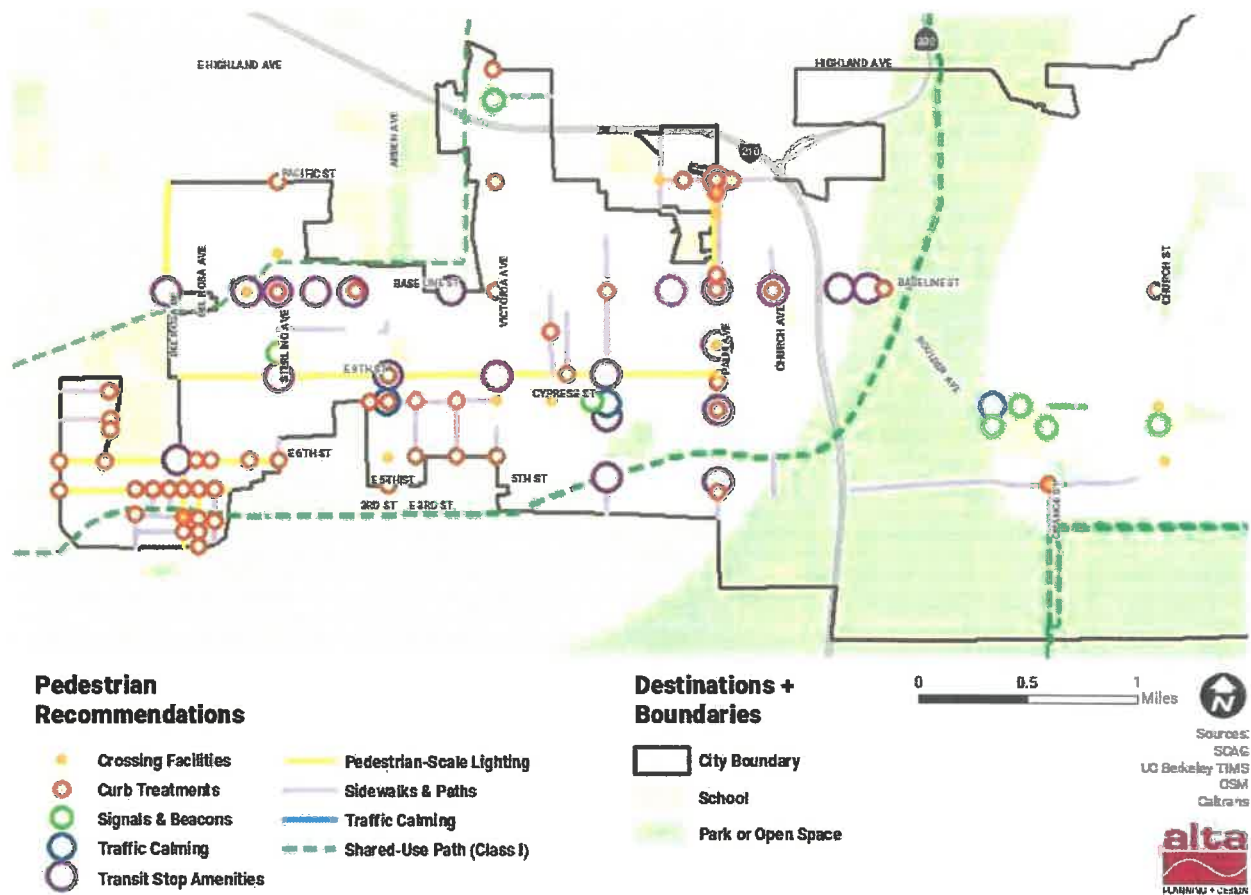


Table 7. Recommended Pedestrian Projects Including Quantity and Length

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
11th St	Sterling Ave	cul a sac	Sidewalks & Paths	Sidewalk Gap	0.31	2
3rd St	Del Rosa Ave		Curb Treatments	Curb Ramps		2
4th St	Marilyn Ave		Curb Treatments	Curb Ramps		2
4th St	Shirley Ave		Curb Treatments	Curb Ramps		2
4th St	Marilyn Ave	Shirley Ave	Sidewalks & Paths	Sidewalk Gap	0.42	2
5th St	Marilyn Ave		Curb Treatments	Curb Ramps		2
5th St	Fairfax Ln		Curb Treatments	Curb Ramps		2
5th St	Elm St		Curb Treatments	Curb Ramps		2
5th St	Michael Dr		Curb Treatments	Curb Ramps		2
5th St	Del Rose Ave		Curb Treatments	Curb Ramps		2
5th St	Shirley Ave		Curb Treatments	Curb Ramps		2
5th St	Del Rosa Ave		Curb Treatments	Curb Ramps		2
5th St	Tippecanoe Ave	Sterling Ave	Sidewalks & Paths	Sidewalk Gap	0.76	2

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
5th St	Bonnie St		Curb Treatments	Curb Ramps		2
5th St	Tippecanoe Ave	Sterling Ave	Pedestrian-Scale Lighting	Lighting	0.77	1
5th St	Donna Dr		Curb Treatments	Curb Ramps		2
6th St	Tippecanoe Ave	Sterling Ave	Sidewalks & Paths	Sidewalk Gap	0.99	2
6th St	Tippecanoe Ave	Sterling Ave	Pedestrian-Scale Lighting	Lighting	0.99	1
6th St	Victoria Ave		Curb Treatments	Curb Ramps		2
6th St	Grape St		Curb Treatments	Curb Ramps		2
6th St	Eucalyptus Dr		Curb Treatments	Curb Ramps		2
9th St	Victoria Ave		Transit Stop Amenities	Bus Shelter and shade		2
9th St	Elmwood Rd	Palm Ave	Pedestrian-Scale Lighting	Lighting	2.46	1
9th St	Sterling Ave		Transit Stop Amenities	Bus Shelters		2
9th St	Valaria Dr	Victoria Ave	Sidewalks & Paths	Sidewalk Gap	0.20	1
9th St	Lankershim Ave		Transit Stop Amenities	Bus Shelter and shade		2
9th St	Hillview St		Curb Treatments	Curb Ramps		2

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
9th St	Central Ave		Transit Stop Amenities	Bus Shelter		2
9th St	Cunningham St	Hillview St	Sidewalks & Paths	Sidewalk Gap	0.07	1
9th St	Central Ave	Cole Ave	Sidewalks & Paths	Sidewalk Gap	0.25	1
9th St	Lankershim Ave		Curb Treatments	Curb Ramps		4
Alpin St	Water St		Crossing Facilities	High-Visibility Crosswalks		4
Base Line St	Elm St		Crossing Facilities	High-Visibility Crosswalk		1
Base Line St	Sterling Ave		Transit Stop Amenities	Bus Shelter		1
Base Line St	McKinley St		Transit Stop Amenities	Bus Shelter		1
Base Line St	Elm St		Transit Stop Amenities	Bus Shelter		1
Base Line St	Sterling Ave		Curb Treatments	Curb Ramps		4
Base Line St	McKinley St		Curb Treatments	Curb Ramps		2
Base Line St	Church Ave		Transit Stop Amenities	Bus Shelter		1
Base Line St	Seine Ave		Transit Stop Amenities	Bus Shelter		1
Base Line St	Stoney Creek Dr		Transit Stop Amenities	Bus Shelter		1

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
Base Line St	Valaria Dr		Transit Stop Amenities	Bus Shelters		2
Base Line St	Cole Ave		Transit Stop Amenities	Bus Shelter		1
Base Line St	Church St		Curb Treatments	Curb Extensions		4
Base Line St	Guthrie St		Transit Stop Amenities	Bus Shelter		1
Base Line St	Palm Ave		Transit Stop Amenities	Bus Shelters		2
Base Line St	Church Ave		Curb Treatments	Curb Extensions		4
Base Line St	Victoria Ave		Curb Treatments	Curb Extensions		4
Base Line St	Central Ave		Curb Treatments	Curb Extensions		4
Base Line St	Boulder Ave		Curb Treatments	Curb Extensions		4
Base Line St	Palm Ave		Curb Treatments	Curb Extensions		4
Central Ave	Meines St		Transit Stop Amenities	Bus Shelter		2
Central Ave	Hibiscus St		Transit Stop Amenities	Bus Shelter		1
Central Ave	Base Line St	10th St	Sidewalks & Paths	Sidewalk Gap	0.27	1
Central Ave	14th St	Messina St	Sidewalks & Paths	Sidewalk Gap	0.18	1
Central Ave	Cypress St		Traffic Calming	Traffic Circle		1

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
Central St	5th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.13	2
Church Ave	Powell Dr	5th St	Sidewalks & Paths	Sidewalk Gap	0.20	2
Church Ave	14th St	Base Line St	Sidewalks & Paths	Sidewalk Gap	0.19	1
Church St	Greenspot Rd		Crossing Facilities	High-Visibility Crosswalk		4
Church St	Glenheather Dr		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		1
Court St	Del Rosa Ave		Curb Treatments	Curb Ramps		2
Court St	Marilyn Ave	Del Rosa Ave	Sidewalks & Paths	Sidewalk Gap	0.29	2
Cunningham St	Base Line St	9th St	Sidewalks & Paths	Sidewalk Gap	0.38	1
Cunningham St	Crest St		Curb Treatments	Curb Ramps		2
Cypress St	Cunningham St		Crossing Facilities	High-Visibility Crosswalks		2
Cypress St	Cunningham St		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		1
Cypress St	McKinley Ave		Curb Treatments	Curb Ramps		2
Cypress St	Lankershim Ave		Curb Treatments	Curb Ramp		1

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
Cypress St	McKinley St	Victoria Ave	Sidewalks & Paths	Sidewalk Gap	0.59	2
Cypress St	Eucalyptus Dr		Curb Treatments	Curb Ramps		2
Cypress St	Grape St		Curb Treatments	Curb Ramps		2
Del Rosa Ave	5th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.26	2
Del Rosa Ave	5th St	3rd St	Pedestrian-Scale Lighting	Lighting	0.26	1
Del Rosa Ave	4th St		Curb Treatments	Curb Ramps		4
Del Rosa Dr	Court St		Curb Treatments	Curb Ramps		4
Del Rosa Dr	5th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.25	2
Del Rosa Dr	4th St		Crossing Facilities	High-Visibility Crosswalks		2
Del Rosa Dr	5th St	3rd St	Pedestrian-Scale Lighting	Lighting	0.39	1
Del Rosa Dr	Base Line St		Transit Stop Amenities	Bus Shelter		2
Del Rosa Dr	Pacific St	Base Line St	Sidewalks & Paths	Sidewalk Gap	0.50	1
Del Rosa Dr	6th St		Transit Stop Amenities	Bus Shelter		2
Del Rosa Dr	4th St		Curb Treatments	Curb Ramps		4

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
Del Rosa Dr	5th St		Curb Treatments	Curb Ramps		4
Del Rosa Dr	Pacific St	Base Line St	Pedestrian-Scale Lighting	Lighting	0.50	1
Del Rosa Dr	6th St	5th St	Sidewalks & Paths	Sidewalk Gap	0.13	2
Donna Dr	5th St	cul a sac	Sidewalks & Paths	Sidewalk Gap	0.07	2
Eucalyptus Dr	Cypress St	6th St	Sidewalks & Paths	Sidewalk Gap	0.25	2
Eucalyptus Ave	Orange St	Streater Ave	Sidewalks & Paths	Sidewalk Gap	0.19	1
Eucalyptus Ave	Webster St		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		1
Fairfax Ln	Union St		Curb Treatments	Curb Ramps		2
Fairfax Ln	Vine St		Curb Treatments	Curb Ramps		2
Fairfax Ln	7th St		Curb Treatments	Curb Ramps		2
Glenheather Dr	Church St		Crossing Facilities	High-Visibility Crosswalks		2
Grape St	Cypress St	6th St	Sidewalks & Paths	Sidewalk Gap	0.25	2
Greenspot Rd	Orange St		Crossing Facilities	High-Visibility Crosswalks		4
Greenspot Rd	210 FWY	Valencia Ct	Sidewalks & Paths	Sidewalk Gap	1.31	2

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
Greenspot Rd	Orange St		Curb Treatments	Curb Extension		1
Greenspot Rd	Gold Buckle Rd	Alta Vista	Sidewalks & Paths	Sidewalk Gap	0.74	1
Greenspot Rd	Alta Vista		Signals & Beacons	Traffic Signal		1
Highland Ave	Pleasant View Ln		Crossing Facilities	High-Visibility Crosswalk		1
Highland Ave	Victoria Ave		Curb Treatments	Curb Extensions		4
Hillview St	Bruce St	9th St	Sidewalks & Paths	Sidewalk Gap	0.29	2
Lankershim Ave	6th St		Crossing Facilities	High-Visibility Crosswalk		2
Lankershim Ave	5th St		Curb Treatments	Curb Ramps		4
Lankershim Ave	cul a sac	Olive St	Sidewalks & Paths	Sidewalk Gap	0.05	2
Lankershim Ave	Cypress St		Traffic Calming	Traffic Circle		1
Marilyn Ave	4th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.14	2
Michael Dr	5th St	cul a sac	Sidewalks & Paths	Sidewalk Gap	0.07	2
New Path	Victoria Ave	Schools	Sidewalks & Paths	Sidewalk Gap	0.26	1
Olive St	cul a sac	Lankershim Ave	Sidewalks & Paths	Sidewalk Gap	0.04	2

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
Orange St	Windham Dr		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		1
Orange St	Greenspot Rd	Boulder Ave	Sidewalks & Paths	Sidewalk Gap	0.22	2
Orange St	Millar St	Clifton Ave	Sidewalks & Paths	Widen Sidewalk	0.31	2
Pacific St	Orange St		Crossing Facilities	High-Visibility Crosswalk		4
Pacific St	Orange St	Palm Ave	Sidewalks & Paths	Sidewalk Gap	0.25	2
Pacific St	Cole Ave		Curb Treatments	Curb Ramps		2
Pacific St	Center St		Curb Treatments	Curb Ramps		2
Pacific St	Palm Ave		Traffic Calming	Traffic Circle		1
Pacific St	Sterling Ave		Curb Treatments	Curb Extensions		4
Pacific St	Palm Ave	Church Ave	Sidewalks & Paths	Sidewalk Gap	0.25	2
Pacific St	Victoria Ave		Curb Treatments	Curb Extensions		4
Palm Ave	Fisher St		Crossing Facilities	High-Visibility Crosswalk		1
Palm Ave	Main St		Crossing Facilities	High-Visibility Crosswalk		3
Palm Ave	9th St		Crossing Facilities	High-Visibility Crosswalk		1

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
Palm Ave	Norwood St		Crossing Facilities	High-Visibility Crosswalk		1
Palm Ave	5th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.12	2
Palm Ave	Pacific St	Villa St	Sidewalks & Paths	Sidewalk gap	0.37	1
Palm Ave	Main St		Curb Treatments	Curb Ramps		4
Palm Ave	Pacific St		Curb Treatments	Curb Ramps		4
Palm Ave	Foster Ave		Curb Treatments	Curb Ramps		1
Palm Ave	Meines St		Transit Stop Amenities	Bus Shelter		1
Palm Ave	Cypress St		Curb Treatments	Curb Extensions		4
Palm Ave	Harlan Ln		Curb Treatments	Curb Ramps		2
Palm Ave	Norwood St		Transit Stop Amenities	Bus Shelter		1
Palm Ave	Pacific St	Base Line St	Pedestrian-Scale Lighting	Lighting	0.50	1
Palm Ave	5th St		Curb Treatments	Curb Extensions		4
Palm Ave	Cypress St		Transit Stop Amenities	Bus Shelter		2
Shirley Ave	4th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.09	2

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
Shirley Ave	5th St	cul a sac	Sidewalks & Paths	Sidewalk Gap	0.09	2
Sterling Ave	Jane St		Crossing Facilities	High-Visibility Crosswalk		1
Sterling Ave	5th St		Curb Treatments	Curb Ramps		1
Sterling Ave	7th St	6th St	Sidewalks & Paths	Sidewalk Gap	0.10	1
Sterling Ave	11th St		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		1
Tippecanoe Ave	5th St		Curb Treatments	Curb Ramps		3
Tippecanoe Ave	6th St		Curb Treatments	Curb Ramps		4
Union St	Tippecanoe Ave	Faifax Ln	Sidewalks & Paths	Sidewalk Gap	0.22	2
Victoria Ave	Cypress St		Crossing Facilities	High-Visibility Crosswalk		1
Victoria Ave	Cypress St	6th St	Sidewalks & Paths	Sidewalk Gap	0.14	2
Victoria Ave	Highland Ave		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		1
Vine St	Tippecanoe Ave	Fairfax Ln	Sidewalks & Paths	Sidewalk Gap	0.23	2
Webster St	Eucalyptus Ave		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		1

Corridor	From (or Cross Street)	To	Facility Category	Description	Length	Quantity
Webster St	Eucalyptus Ave		Traffic Calming	Traffic Circle		1
TOTAL					18.33	304

BENEFITS OF IMPLEMENTATION

Expanding the network of pedestrian facilities and bikeways brings Highland closer to achieving the goals described in Chapter 2 of this Plan. Implementing the recommended projects could have the following impacts:

- **Collision Reduction:** Reduce the number of severe and fatal collisions to zero by 2040
- **Environmental:** Reduce air pollution from cars due to more people biking and walking
- **Equity:** Reduce household transportation costs and improve mobility options for vulnerable populations
- **Mode Shift:** Increase the share of people walking and biking to work by 5% by 2025 and 10% by 2040
- **Public Health:** Increase the proportion of the population meeting recommended levels of physical activity and reduce the risk for and prevalence of obesity and chronic diseases (e.g., cardiovascular disease, type 2 diabetes, cancer)

SUPPORT FACILITIES

Bicycle Parking

Using data and recommendations highlighted in this Plan, the City of Highland will work to review (and update if necessary) our bicycle parking requirements regularly. The City will also work with partner agencies, large employers, and businesses to ensure bicycle parking is implemented throughout the community. While public entities may lack the authority to install bicycle parking on private rights-of-way, Highland will partner with school districts, transit providers, and private property owners to install and retrofit bicycle parking at existing and new destinations as needed. Table 8 presents an overview of the Association of Pedestrian and Bicycle Professionals' (APBP) recommendations for bicycle parking locations and quantities. These guidelines and recommendations are based on industry best practices as well as APBP's Essentials of Bicycle Parking Recommendations.

Table 8. Recommendations for Bicycle Parking Locations and Quantities

Land Use or Location	Physical Location	Quantity (Minimum)
Parks	Adjacent to restrooms, picnic areas, fields, and other attractions	8 bicycle parking spaces per acre
Schools	Near office and main entrance with good visibility	8 bicycle parking spaces per 40 students

Land Use or Location	Physical Location	Quantity (Minimum)
Public Facilities (e.g., libraries, community centers)	Near main entrance with good visibility	8 bicycle parking spaces per location
Commercial, Retail, and Industrial Developments (over 10,000 square feet)	Near main entrance with good visibility	1 bicycle parking space per 15 employees or 8 bicycles per 10,000 square feet
Shopping Centers (over 10,000 square feet)	Near main entrance with good visibility	8 bicycle parking spaces per 10,000 square feet
Transit Stations	Near platform, security or ticket booth	1 bicycle parking space or locker per 30 automobile parking spaces
Multi-Family Residential	Near main entrance with good visibility	1 short-term bicycle parking space per 10 residential units and 1 long-term bicycle parking space per 2 residential units



Bike corrals provide ideal short-term parking near businesses.

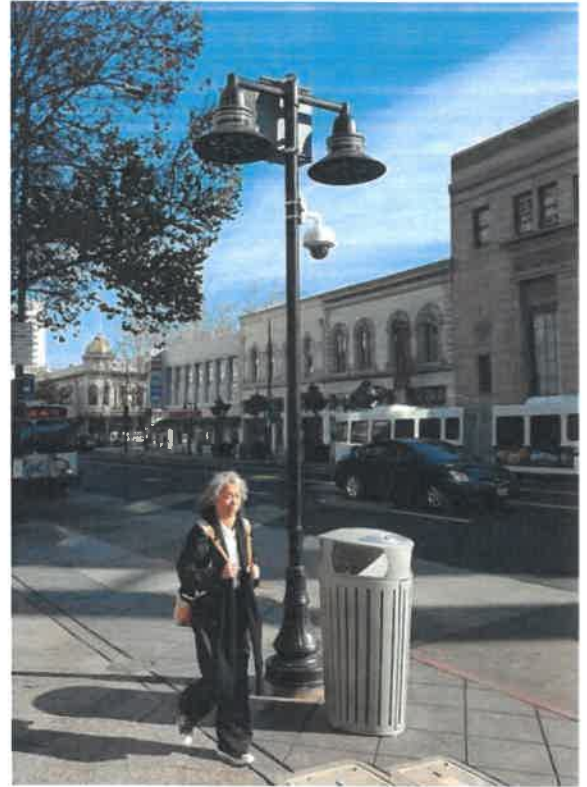
Pedestrian-Scale Lighting

Although many streets include lighting for vehicle traffic, few include lighting with frequent lampposts at low height that illuminate the walking area. Pedestrian-scale lighting not only increases visibility of pedestrians for drivers at night, it contributes to a more comfortable and inviting streetscape for people walking. Pedestrian-scale lighting is typically designed to illuminate only the areas needed and to be no brighter than necessary.

Following adoption of this Plan, the City will work to implement pedestrian-scale lighting at locations identified in the Plan to improve pedestrian comfort and encourage walking, including near schools and major intersections such as Palm Avenue.

Amenities

Street trees and sidewalk/trail furnishings (such as benches, shade structures, restrooms, water fountains, and trash receptacles) contribute to a cleaner, more comfortable, and more pedestrian-oriented public realm. These elements not only encourage the activation of our sidewalk and trail networks, they contribute to a more accessible pedestrian network for all residents. Older people and those with mobility impairments will benefit from frequent places to stop and rest, and this was a priority identified by the community during outreach for this Plan.



In addition to standalone pedestrian-scale lighting, street lights can be fitted to include pedestrian-scale fixtures that illuminate the walking area, while higher, vehicle-scale street lights illuminate the roadway.



Shade, benches, and lighting increase comfort on trails.

Following adoption of this Plan, the City will identify and pursue opportunities to provide amenities in the downtown, near transit stops, and along trails in the community.



Trees, landscaping, and benches enhance the pedestrian experience.

Green Infrastructure

Green infrastructure is an approach to water management that protects, restores, and simulates the natural water cycle by capturing, filtering, and slowing stormwater. This improves water quality, recharges groundwater resources, provides opportunity for water storage and reuse, and decreases the burden on traditional gray infrastructure systems.

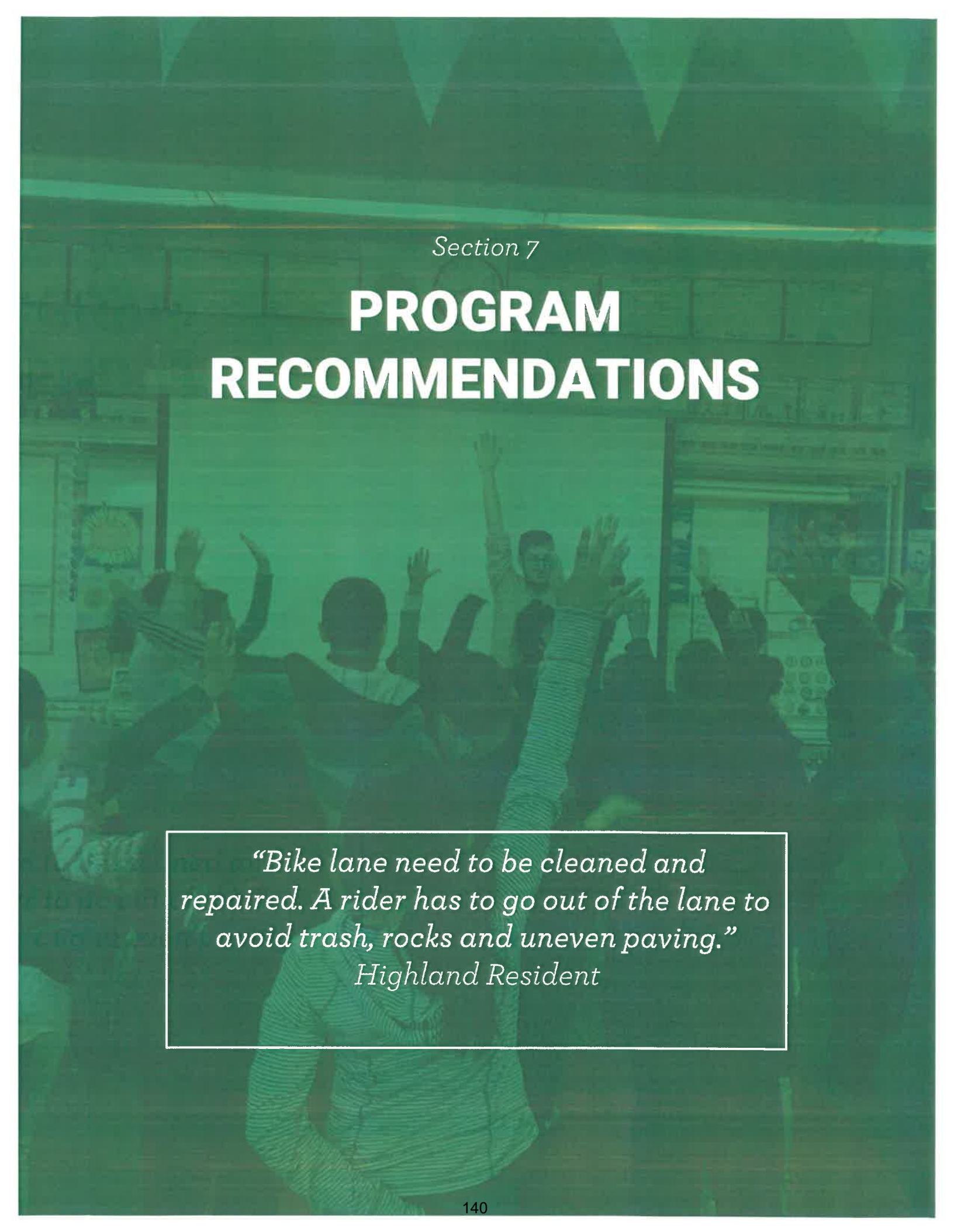
Green infrastructure is effective, economical, and provides a multitude of benefits to people and wildlife. Green Infrastructure strategies incorporate both the natural environment (forests, wetlands, and other open spaces) and engineered systems (bioswales, rain gardens, tree root vault systems, and pervious paving). Bioswales, for example, manage water runoff from a paved surface and reduce the risks of erosion or flooding of local streams and creeks. Plants in the swale trap pollutants and silt from entering a river system.

Plant material provides a wide array of co-benefits beyond water management. Trees, for example, help reduce greenhouse gases, aid in carbon sequestration, increase urban habitat, and provide shade. In fact, trees are estimated to cool surface temperatures by as much as 45 degrees Fahrenheit, a differential that help keep walking and biking on our trails a pleasant experience even in the summer.

Bulb-outs, planted bikeway buffers, and landscaped areas adjacent to sidewalks and Class I paths present ideal locations for green infrastructure. The City of Highland will take advantage of these opportunities and install green infrastructure where feasible. The City will also consider utilizing permeable paving for new facilities or facilities requiring re-paving, especially where facilities are adjacent to waterways or parks.



Rain gardens and bioswales help capture and filter stormwater, recharging our aquifers and improving the quality of our waterways.

A photograph of a group of people in a meeting, with many hands raised in the air, suggesting an active discussion or a vote. The image is overlaid with a green tint.

Section 7

PROGRAM RECOMMENDATIONS

“Bike lane need to be cleaned and repaired. A rider has to go out of the lane to avoid trash, rocks and uneven paving.”

Highland Resident

7. Program Recommendations

Education, encouragement, and promotional programs will help people of all ages and abilities realize the full potential of Highland's new and recommended active transportation network. These types of programs help people learn how to use our roads safely, whether traveling as a pedestrian, in a vehicle, or on a bicycle.

The programmatic recommendations in the plan aim to improve safety, strengthen wayfinding, increase access to bicycling and walking, and encourage community and economic development. Together these efforts can help make riding or walking in our community a safer, easier, and more enjoyable experience for more people. The programs will help to increase the visibility of people who ride or walk, communicate that all road users are expected to look out for each other no matter how they travel, create safer streets, and develop a common understanding of traffic safety. The programs will also reach out to new

audiences to help people understand the rules of the road and share a vision of biking and walking as a fun, healthy, community-building activity.

Research shows that adopting and maintaining new behaviors related to walking and bicycling is a process that involves changing the way we relate to each other on our streets and how we choose to travel. This process depends on policies that support comfortable and safe active transportation, provide access to basic information about riding and walking opportunities, and teach people about new travel options.

Altogether, the programs recommended here complement engineering investments by encouraging more people to walk and bike more often, educating all roadway users to enhance pedestrian safety, and addressing both perceived and real personal safety issues. During the development of this Plan, stakeholders provided input on how programs can support active transportation in their communities (see Table 9). The City used community feedback alongside data to develop the following programmatic recommendations.



Programs complement engineering improvements, helping to ensure that people of all ages and abilities feel comfortable and confident when walking or biking.

Table 9. Public Input Guiding Programmatic Recommendations

What We Heard	What We Propose
People do not know how to ride or walk safely	Make Education a Priority Programs will include safety courses for all roadway users (including motorists, cyclists, and pedestrians), and all ages and abilities (including children, older adults, novice cyclists and walkers).
Safety is a top concern throughout the city	Make Safety Campaign Programs will include safety campaigns which will encourage all road users to be respectful of one another. Campaign materials can include banners, Bus Shelter ads, and yard signs concentrated near businesses and schools as well as areas with high rates of collisions.
Safety walking and biking to school is a top priority	Make Routes to Schools Safer Programs will include updating safe routes to school maps and implement safety program initiatives at all of Highland's schools.

CONTINUE EXISTING PROGRAMS

The City of Highland will continue to develop and support the following existing programs in our community, helping us achieve our safety and equity goals by educating the public about the new and recommended network and encouraging people of all ages and abilities to bike or walk for any trip purpose.

Highland's Safe Routes to School

Safe Routes to School (SRTS) programs have many goals including:

- Teaching students the rules of the road, so they are more prepared to navigate their community via active transportation and eventually become safe drivers;
- Encouraging active modes of getting to school, which will help students arrive at school more alert and ready to learn;
- Decreasing the prevalence of childhood obesity through increased physical activity; and
- Reducing traffic congestion around schools and cut-through traffic on residential streets due to school drop-off and pick-up.

Highland's existing Safe Routes to School program includes safe route to school maps for every elementary school. Additionally, school participated in a regional wide initiative through the San Bernardino Safe Routes to School program that included a robust set of educational activities customized for the County. Lankershim Elementary was part of the County's SRTS Phase III Program. The SRTS Program included an updated school route map, encouragement materials which provided as an ongoing reminder about the SRTS Program, and encouragement activities. Although the County is continuing its program efforts, the City of Highland should work with its school districts to develop a city wide safe routes to school program to guarantee all schools throughout Highland are participating.

San Bernardino County Safe Routes to School

The San Bernardino County Safe Routes to School provides the region with the opportunity to increase walking and biking to school, increase physical activity, improve health outcomes, reduce injuries, and reduce vehicle miles traveled. SRTS initiatives such as safety education and campaigns are part of a comprehensive and effective strategy that can help create a healthier community and are conducted throughout the County.

PROGRAM TOOLKIT

To further advance the goals of this Plan, the City of Highland will work towards implementing the following new programs to help encourage active transportation in our community. While the City is responsible for the implementation of this Plan, several of the programs are an opportunity to work with external stakeholders such as community members and community-based organizations, school districts, neighboring jurisdictions, and transit providers to develop and implement programs.

The City of Highland is committed to continuing and expanding upon the efforts of the existing SRTS program and can do so by:

- Seeking additional funding in the future to expand the program efforts and supporting overall program growth
- Updating existing Suggested Routes to School maps and redistributing to district schools as new infrastructure improvements are implemented
- Evaluating participation in programs, such as Walk to School Day, using national best practices for SRTS program evaluation
- Continuing to implement local SRTS plans and to update regularly



Walking and biking curriculum frequently covers proper helmet usage.

Education Classes

Bicycling education for adults can build confidence and improve safety by incorporating both presentations and on-bike practice covering rules of the road and safe bicycling skills. The League of American Bicyclists offers multiple curricula that can be taught by League Certified Instructors in the area.²⁶ The City of Highland can support these efforts by funding classes or providing meeting space or other in-kind donations to support education opportunities.

While the aforementioned classes tend to be better for adults or teenagers, younger children can benefit from in-classroom education related to safe walking and bicycling. As part of school curriculum in Highland, students learn basic traffic laws and safety rules in addition to incorporating lessons across biology, earth science, math, and art that focus on the benefits of active transportation.



Education programs for safe walking and biking should include people of all ages.

²⁶ More information on the League of American Bicyclists courses is available at bikeleague.org/ridesmart.



Safe Routes for Seniors programming could include safety courses, transit trainings, and fitness challenges.

Safe Routes for Seniors

A program providing active opportunities for older adults in Highland could foster healthy aging and longer years of independent living. A Safe Routes for Seniors program develops tools and services to help seniors find ways to meet their transportation needs through trips that primarily include walking and transit, both by bus or light rail. Developing programs that include group walks geared towards seniors will also encourage social bonding. The program can include key awareness topics such as education for drivers to pay particular attention to senior pedestrians and specific improvements such as increasing crossing time in areas that experience a high number of seniors walking. Feedback received from the program can inform future infrastructure improvements that further address needs of older adults.

Bicycle and Pedestrian Safety Campaign

Bicycle and pedestrian safety campaigns encourage all road users to abide by local laws and to be courteous to other users. They can be targeted at just one user type (e.g., motorists) or at multiple users. Local resources for conducting a public awareness campaign can be maximized by assembling a group of local experts, business owners, civic leaders, and dedicated community volunteers. These stakeholders can assist with successful safety campaign goals based on



As part of the Take the Friendly Road campaign, Santa Monica residents were given yard signs to encourage motorists to drive slowly and safely throughout the city.

the local concerns and issues. It may be necessary to develop creative strategies for successful media placement in order to achieve campaign goals.

Outreach campaigns should be concentrated in central business districts like Highland Village Plaza, near schools, and at areas along the high injury network or with high rates of collisions. Campaign materials can include posters, bus shelter ads, banners, yard signs, spoke cards, and more. These campaigns should be deployed regularly to promote an attitude of roadway safety and awareness. Highland could also consider coordinating these efforts with the Southern California Association of Governments (SCAG) *Go Human* campaign, which provides existing materials to member agencies.



The Pasadena Safe School Zones campaign targeted motorists and encouraged them to drive slowly and cautiously near schools.

Bicycle and Pedestrian Wayfinding

Wayfinding systems help people biking and walking navigate to community destinations such as transit stations, parks, libraries, schools, and business districts. They can also serve as an encouragement program by providing walking or biking time to destination information, helping people orient themselves, and encouraging the discovery of new places or services. Wayfinding can also be used to highlight the local identity of a community.

The City of Highland can engage communities in a collaborative design process to develop wayfinding that has unifying characteristics citywide but allows neighborhood customization along specific routes. To do so, the City can work with community members and local organizations to develop wayfinding signage that incorporates community identity.

To provide a low-stress experience, sometimes bike facilities are shifted off of high stress roads onto parallel routes. When bikeways change designations, it is not always clear how to navigate to the nearest route. Highland can evaluate wayfinding needs where low-stress bikeways end and install wayfinding to nearby or parallel routes.

Neighborhood Bike Stops

Limited locations throughout Highland currently provide bike parking, but there is a lack of other amenities like bike self-repair/fix-it stations. Being able to fix bikes and have access to water in a secure and welcoming place would allow residents and visitors to engage in outdoor physical activity more frequently and more comfortably. The City of Highland can add bicycle fix-it stations and hydration stations to various key destinations in the city. For example, Highland City Administration building would be an ideal location for a neighborhood bike stop due to its proximity to Base Line Street and Palm Avenue and its secure and welcoming presence in the community.



Quick-build wayfinding can take the form of these temporary signs to encourage residents and visitors to walk more to key destinations.

Open Streets and Demonstration Projects

Open streets events temporarily close streets to car traffic, allowing people to use the streets for activities like walking, bicycling, skating, and other social and physical activities. These events are great for bringing the community together and promoting transportation options and public health. Open streets events are also excellent at building community; they bring together neighborhoods, businesses, and visitors alike.

Open streets events can also serve as a tool to engage with the public about how their roadways can better serve their needs. For example, the City of Highland can use open streets events as an opportunity to demonstrate new infrastructure ideas such as traffic circles or separated bicycle lanes. They provide an opportunity for the City to directly engage with residents and local businesses and receive feedback on new ideas at the moment people are experiencing their streets and community in a new way.

Demonstration projects can also be done as standalone events (i.e., without an open streets event). Unlike open streets events, demonstration projects typically maintain vehicle access so community members are able to experience how an existing roadway could function with projects such as new crossings, bike lanes, and more. Demonstrating potential future projects enables the City to work with local stakeholders to test out infrastructure ideas for a day or a few weeks to inform permanent projects.

The City of Highland can partner with neighboring jurisdictions, local stakeholders, and regional agencies like SCAG to plan and implement open streets events and demonstration projects.



An ongoing open streets event, CicLAvia allows people to enjoy car-free streets throughout Los Angeles.



SCAG's Go Human demonstration kit allows cities to test out design ideas, such as bike lanes, curb extensions and wayfinding..



Community cleanups remove litter from our streets and help foster connections. (Capt. Kristen Newsom)

Adopt-a-Road and Adopt-a-Trail Programs

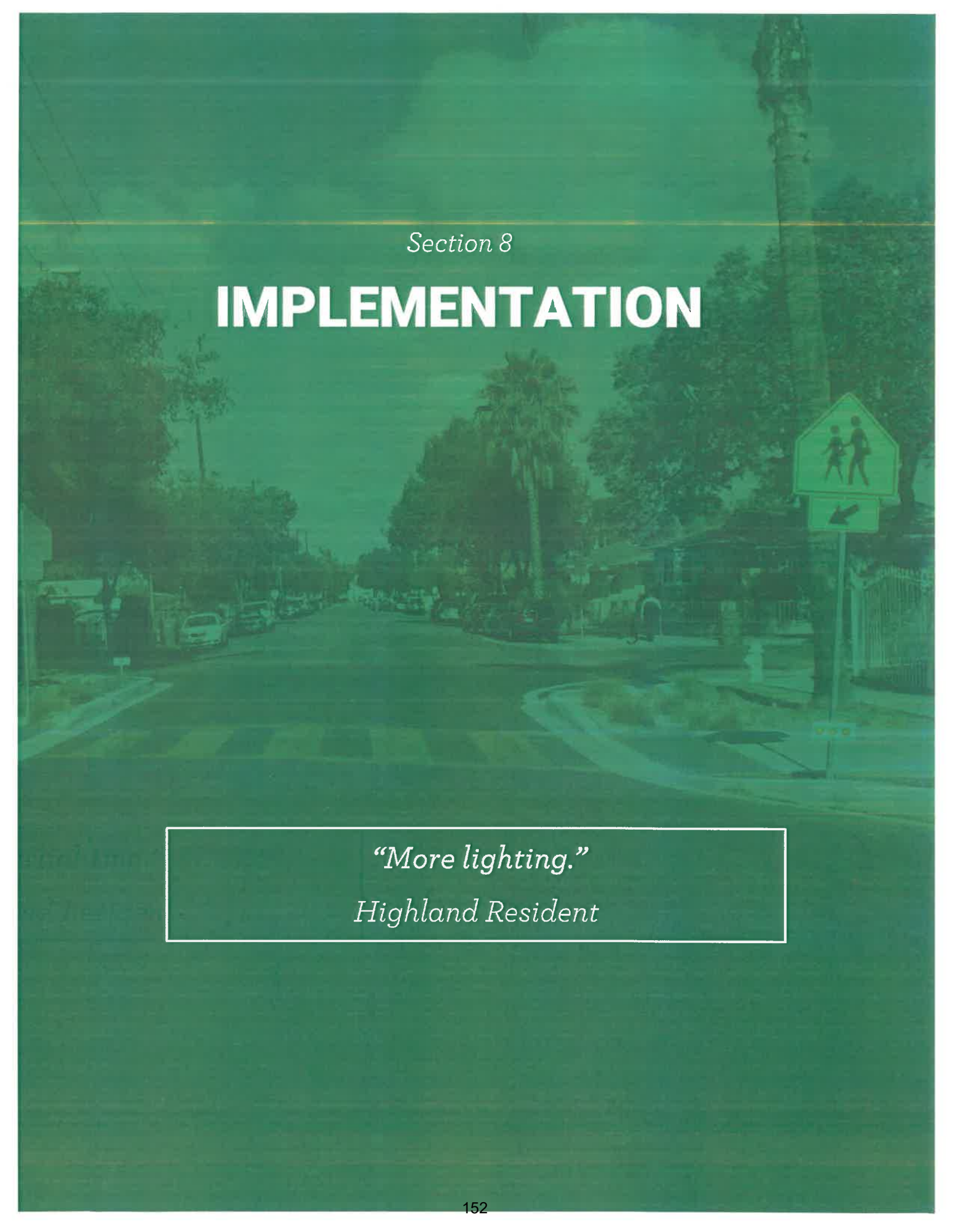
Adopt-a-Road and Adopt-a-Trail programs provide an opportunity for groups, businesses, or clubs to adopt a section of a road or trail. They then support their section of the road/trail with financial contributions and volunteer work. This augments City resources and offers residents a chance to keep roadways and trails near their neighborhood in good condition, and provides businesses the opportunity to enhance the streetscape near their place of business.



Tree planting efforts can coincide with national celebrations such as Earth Day or Arbor Day. (Jonathan Su)

Community Cleanups and Tree Plantings

To augment the City's limited resources and accomplish community goals of clean, shaded streets, the City can leverage volunteer groups and community support with community cleanups, plantings, and other beautification efforts. Such programs could involve a partnership between the City and community-based organizations or corporate sponsors, especially to provide ongoing care for new trees and other plantings.



Section 8

IMPLEMENTATION

“More lighting.”
Highland Resident

8. Implementation

This chapter provides a roadmap for achieving the vision and goals established at the beginning of the Plan by outlining a prioritization strategy, cost estimates, maintenance, and funding sources. The City of Highland is responsible for the implementation of active transportation infrastructure projects within the city boundaries. Programs to encourage walking, bicycling, and using other active modes or to provide safety education are the responsibility of City of Highland departments and of regional agencies such as Public Works. Additionally, a safer and more active Highland is not possible without the involvement of community members as our residents have invaluable local knowledge about the streets in our community. As the City moves forward with the implementation of active transportation projects, additional community engagement and outreach will be essential.

The City of Highland commits to regularly evaluating how well performance measures set forth in this Plan are met, and whether the many recommendations established in this Plan still meet the needs of our residents and visitors. The City aims to track progress on implementation every year.

In addition, the recommendations in this Plan should be re-evaluated at least every five years to ensure that these still constitute best practices and reflect Highland's long-term vision for a safer and more active community.

ADMINISTRATION

CEQA

The California Environmental Quality Act (CEQA) provides a process for evaluating the environmental effects of plans or applicable projects undertaken or approved by public agencies. Active Transportation Plans, such as this one, are generally exempt from the CEQA process and do not require an Environmental Impact Report (EIR). Additionally, when implementing this Plan, specific projects that do not significantly alter land, water, or vegetation (e.g., striping bikeways or crosswalks) are also exempt from the environmental review process. For pedestrian and bicycle facilities that are not exempt from CEQA review but are initially shown to not have a significant impact on the environment, the City of Highland can file either a Categorical Exemption or a Mitigated Negative Declaration in lieu of completing an EIR. When implementing specific infrastructure projects, jurisdictions should consult CEQA guidelines and Senate Bill 1380 for further information.

Active Transportation Plan Compliance

The Active Transportation Program (ATP) is a Caltrans program with specific requirements for bicycle and/or pedestrian plans. Although Plans are no longer required to comply with the ATP guidelines in order to receive Caltrans funding, it is strongly recommended that communities have an approved Plan prior to applying for implementation funds. This Highland Active Transportation Plan is in compliance with ATP guidelines as shown in Appendix A.

PRIORITIZATION FRAMEWORK

To guide implementation, a prioritization framework was developed to evaluate proposed bicycle and pedestrian projects using the criteria outlined in Table 10. These criteria include safety, addressing barriers, ensuring facilities serve areas of high need, improving access to schools and other key destinations, and findings from public input. For each criterion, projects received an individual score; a composite score was developed based on the sum of all six factors evaluated. Total scores falling within the top third are considered high priority projects; total scores falling in the middle third are considered medium priority; and scores falling in the lower third are considered lower priority projects.

This methodology enables the City of Highland to identify priority projects and phase the implementation of projects over the years. Some projects can also be implemented as part of routine roadway maintenance programs. Furthermore, this prioritization plan is aligned with the State's Active Transportation Program grant criteria, which is the primary source of state funding the City pursues for pedestrian and bicycle infrastructure.

Table 10. Prioritization Criteria

Criteria	Measure	Points
Safety	Within 500 feet of 4+ pedestrian-/bicyclist-involved collisions or 1 pedestrian/bicyclist fatality = 15 points	0, 5, 10, 15
	Within 500 feet of 2-3 pedestrian-/bicyclist-involved collisions = 10 points	
	Within 500 feet of 1 pedestrian-/bicyclist-involved collision = 5 points	
Equity	Projects that are located within a disadvantaged community, as defined by CalEnviroScreen 3.0. Points are based on the CES Percentile (0-100%): 0-9% = 1 point; 10-19% = 2 points, etc.	1 - 10

Criteria	Measure	Points
Destination Accessibility	Within 500 feet of a park or school, Points are based on number of destinations within 500 feet, up to 10 destinations.	0 - 10
Community-Identified Need	Projects that were identified through multiple engagement efforts with unique stakeholders.	0, 10
Cost	Projects that are lower cost will generally present fewer barriers to implementation, and thus receive more points based on this threshold: Low = 10 points, Medium = 5 points, High = 0 points	0, 5, 10
Ease of Implementation	Projects that require minimal infrastructure present fewer barriers to implementation, and thus receive more points based on this threshold: Easy = 10 points, Somewhat Easy = 5 points, Not Easy = 0 points	0, 5, 10
Maximum Possible Points		65

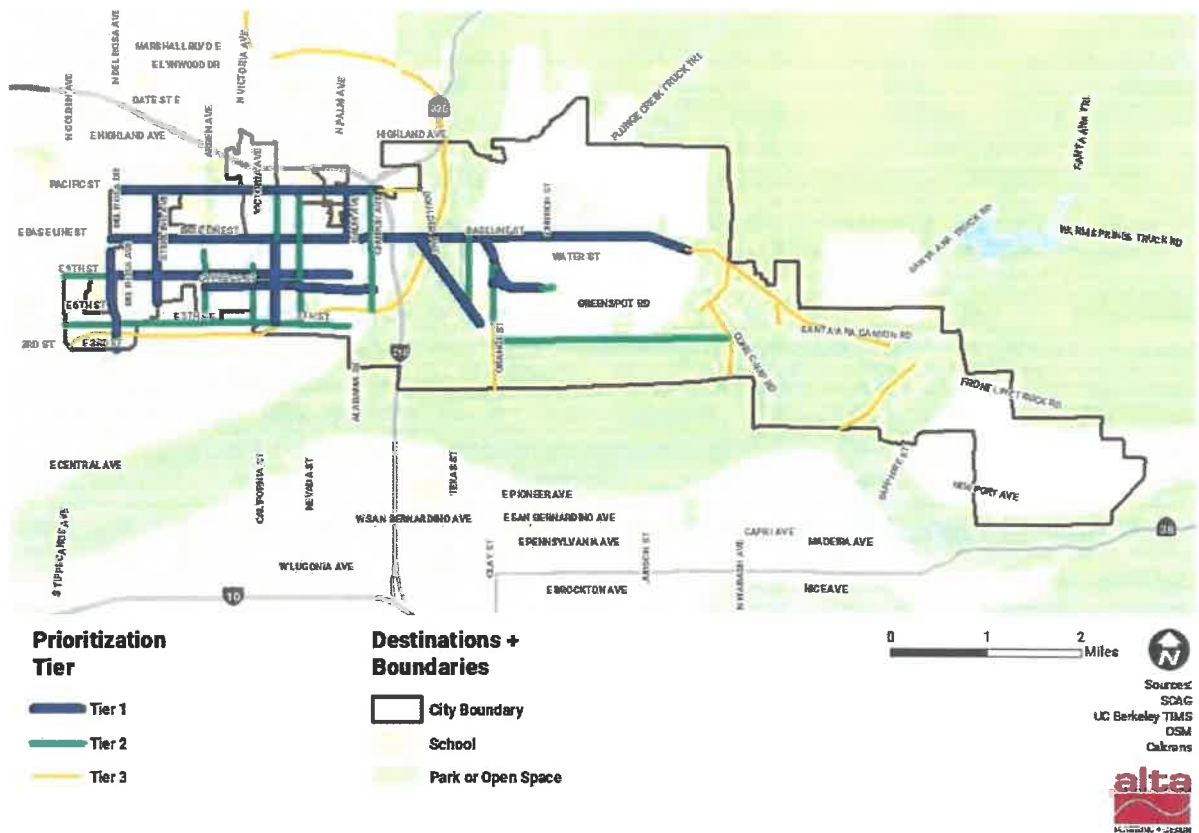
The prioritization list acts as a guide to implementation for the City of Highland. When funding sources become available, the City will take all available opportunities to propose the most competitive projects. Should opportunities arise to complete projects on lower tiers of the prioritization list, they will be taken. For example, if a new development is required to provide a public benefit along these corridors, proposed bikeways or sidewalks can be considered as an option. If the City plans to repave a corridor that has a recommended bikeway or pedestrian project in this Plan, the City will explore ways to install facilities as the street is repaved.

Projects were given one of three priorities:

- **Tier 1: High Priority Projects.** These are projects that the City of Highland will actively seek funding for and dedicate resources to planning and implementation in the immediate years. Timelines for outreach, and identification of funding sources will be a high priority and immediate next step. The Tier 1 projects that are lower-scale and cost will be considered for immediate implementation in the coming fiscal years.
- **Tier 2: Priority Projects.** These are projects that the City of Highland will maintain as potential projects, in the event that funding sources (such as developer impact fees) become available. The City's repaving plan will also take these projects into account as street repaving plans are implemented. These projects may be combined with Tier 1 projects to strengthen the network and gap closure portions of grant applications, and to complement other projects.

- Tier 3: Other Projects.** These are projects that the City of Highland will pursue longer-term. However, should the City have the opportunity to implement projects from any of the three tiers, we will work to develop these projects in order to close network gaps and improve walking, biking, and connecting to transit.

Figure 25. Recommended Bicycle Projects by Prioritization Score





Prioritized Bicycle Projects

Figure 25 shows the recommended bicycle projects throughout the city based on prioritization score. The following tables list Tier 1, 2, and 3 projects among the recommended bikeways, including planning-level cost estimates.

Table 11. Recommended Bicycle Projects Including Length and Estimated Costs: Tier 1

Corridor	From	To	Facility Type	Length (Miles)	Cost Estimate	Priority Score
Palm Ave	Pacific St	Base Line St	3	0.50	Low	49
Base Line St	Del Rosa Ave	Tuolumne Ln	2B	6.09	Low	49
9th St	Del Rosa Dr	Palm Ave	2B	2.50	Low	44
Cypress St	Lankershim Ave	Church Ave	3B	1.76	Medium	42
Del Rosa Dr	Paloma St	3rd St	2	1.04	Low	42
Cunningham Ave	Base Line St	5th	2	0.88	Low	41
Sterling Ave	Pacific St	7th St	2B	1.17	Low	39
Streater Avenue	Base Line St	Church St	2	0.92	Low	38
Pacific St	Del Rosa Dr	210 Freeway	2	2.71	Low	38
Tonner Dr	Orange St	Streater Ave	3	0.16	Low	38
Boulder Ave	Base Line St	Greenspot Rd	3	1.12	Low	36
TOTAL				18.84		

Table 12. Recommended Bicycle Projects Including Length and Estimated Costs: Tier 2

Corridor	From	To	Facility Type	Length (Miles)	Cost Estimate	Priority Score
Webster St	Base Line St	Boulder Ave	3B	0.74	Medium	35
Orange Street	Streater Ave	Greenspot Rd	2	0.61	Low	35
Olive Street	Pacific St	Base Line St	3	0.50	Low	35
5th St	Tippecanoe Ave	Palm Ave	2B	2.99	Low	35
Central Ave	Pacific St	5th St	3B	1.39	Medium	33
9th St	Tippecanoe Ave	Del Rosa Dr	2	0.49	Low	32
Lankershim Ave	Olive St	5th St	3B	0.75	Medium	30
Victoria Ave	Sparks St	5th St	2	0.60	Low	30
Church St	Pacific St	5th	3	1.25	Low	30
Orange to Cone						
Camp Trail	Orange St	Cone Camp Rd	1	2.48	Medium	26
Love St	Church St	Elder Gulch Paseo	2	0.12	Low	24
TOTAL				11.93		

Table 13. Recommended Bicycle Projects Including Length and Cost Estimates: Tier 3

Corridor	From	To	Facility Type	Length (Miles)	Cost Estimate	Priority Score
Pacific St	210 Freeway	Grove Ave	2	0.41	Low	23
Cone Camp Rd	Greenspot Rd	South City Limit	1	0.38	Medium	22
North Fork Trail	Cone Camp Rd	Tuolumne Ln	1	1.38	Medium	21
City Creek Trail	3rd St	Highland Ave	1	3.27	High	20
North Fork Trail	Base Line St	Greenspot Rd	1	1.87	Medium	19
Santa Ana River Trail		Greenspot Rd	1	1.05	Medium	19
Orange St	Greenspot Rd	South City Limit	1	0.72	Medium	18
City Creek Trail	Tippecanoe Ave	Sterling Ave	1	0.73	High	17
City Creek Trail	Sterling Ave	Victoria Ave	1	14.32	High	14
TOTAL				24.13		

Figure 26. Prioritized Pedestrian Projects

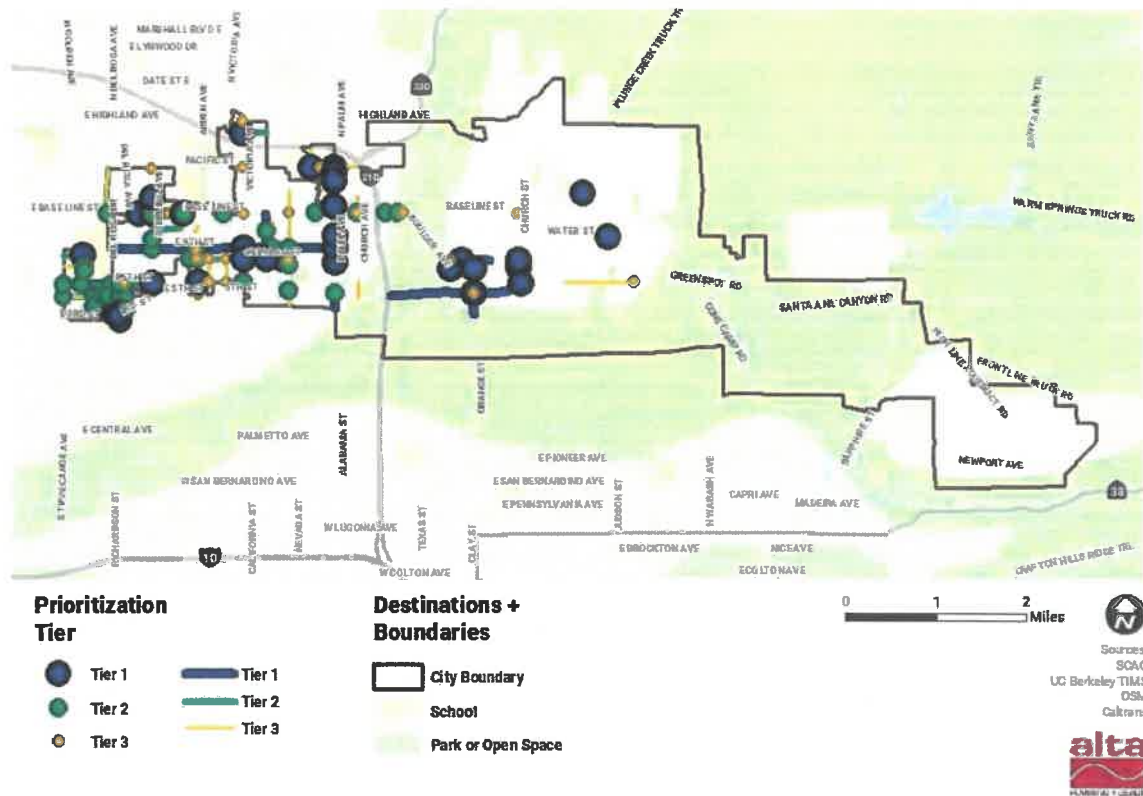
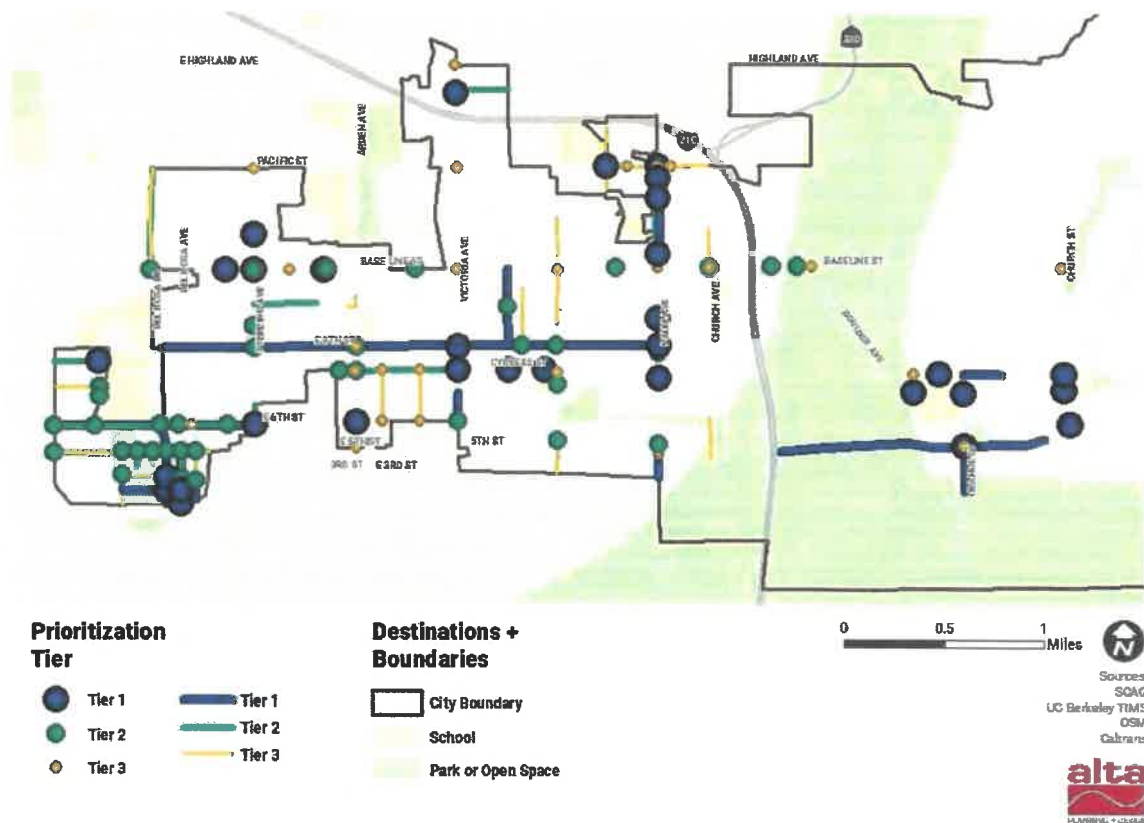


Figure 27. Prioritized Pedestrian Projects – Western Highland





Prioritized Pedestrian Projects

Figure 26 and Figure 27 shows the recommended pedestrian projects throughout the city based on prioritization score. The following tables highlight Tier 1, 2, and 3 projects among the recommended pedestrian projects, including planning-level cost estimates.

Table 14. Recommended Pedestrian Projects Including Quantity, Length, and Cost Estimate: Tier 1

Corridor	Cross Street	To	Facility Category	Description	Length	Cost Estimate	Priority Score
Cypress St	Cunningham St		Crossing Facilities	High-Visibility Crosswalk		Low	45
Palm Ave	Fisher St		Crossing Facilities	High-Visibility Crosswalk		Low	42
Base Line St	Elm St		Crossing Facilities	High-Visibility Crosswalk		Low	39
Greenspot Rd	Orange St		Crossing Facilities	High-Visibility Crosswalks		Low	38
Palm Ave	Main St		Crossing Facilities	High-Visibility Crosswalk		Low	38
Church St	Greenspot Rd		Crossing Facilities	High-Visibility Crosswalk		Low	38
Sterling Ave	Jane St		Crossing Facilities	High-Visibility Crosswalk		Low	37
Del Rosa Dr	Court St		Curb Treatments	Curb Ramps		Medium	35
3rd St	Del Rosa Ave		Curb Treatments	Curb Ramps		Medium	35
Court St	Del Rosa Ave		Curb Treatments	Curb Ramps		Medium	35
Palm Ave	Cypress St		Transit Stop Amenities	Bus Shelter		Medium	35
Palm Ave	9th St		Crossing Facilities	High-Visibility Crosswalk		Low	35

Corridor	Cross Street	To	Facility Category	Description	Length	Cost Estimate	Priority Score
Palm Ave	Norwood St		Crossing Facilities	High-Visibility Crosswalk		Low	35
Del Rosa Ave	5th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.26	Medium	35
Base Line St	Sterling Ave		Transit Stop Amenities	Bus Shelter		Medium	34
Base Line St	McKinley St		Transit Stop Amenities	Bus Shelter		Medium	34
Eucalyptus Ave	Orange St	Streater Ave	Sidewalks & Paths	Sidewalk Gap	0.19	Low	33
Cypress St	Cunningham St		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		Medium	31
Del Rosa Dr	5th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.25	Medium	31
Palm Ave	5th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.12	Low	31
Del Rosa Dr	4th St		Crossing Facilities	High-Visibility Crosswalks		Low	30
9th St	Victoria Ave		Transit Stop Amenities	bus shelter and shade		Medium	30
Victoria Ave	Cypress St		Crossing Facilities	High-Visibility Crosswalk		Low	30
Highland Ave	Pleasant View Ln		Crossing Facilities	High-Visibility Crosswalk		Low	30
Court St	Marilyn Ave	Del Rosa Ave	Sidewalks & Paths	Sidewalk Gap	0.29	Medium	30
Shirley Ave	4th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.09	Medium	30
Victoria Ave	Cypress St	6th St	Sidewalks & Paths	Sidewalk Gap	0.14	Low	30

Corridor	Cross Street	To	Facility Category	Description	Length	Cost Estimate	Priority Score
Webster St	Eucalyptus Ave		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		Medium	29
Sterling Ave	5th St		Curb Treatments	Curb Ramp		Medium	29
Base Line St	Elm St		Transit Stop Amenities	Bus Shelter		Medium	29
Lankershim Ave	6th St		Crossing Facilities	High-Visibility Crosswalk		Low	29
9th St	Elmwood Rd	Palm Ave	Pedestrian-Scale Lighting	Lighting	2.46	High	29
Palm Ave	Pacific St	Villa St	Sidewalks & Paths	Sidewalk Gap	0.37	High	29
Eucalyptus Ave	Webster St		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		Medium	28
Orange St	Windham Dr		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		Medium	28
Church St	Glenheather Dr		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		Medium	28

Corridor	Cross Street	To	Facility Category	Description	Length	Cost Estimate	Priority Score
				raised) with flashing beacons			
Palm Ave	Main St		Curb Treatments	Curb Ramps		Medium	28
Palm Ave	Pacific St		Curb Treatments	Curb Ramps		Medium	28
Pacific St	Orange St		Crossing Facilities	High-Visibility Crosswalk		Low	28
Greenspot Rd	210 FWY	Valencia Ct	Sidewalks & Paths	Sidewalk Gap,	1.31	Medium	28
Palm Ave	Foster Ave		Curb Treatments	Curb Ramps		Medium	27
Glenheather Dr	Church St		Crossing Facilities	High-Visibility Crosswalks		Low	27
Alpin St	Water St		Crossing Facilities	High-Visibility Crosswalks		Low	27
Del Rosa Dr	5th St	3rd St	Pedestrian-Scale Lighting	Lighting	0.39	High	27
				Mid-block crossing (possibly raised) with flashing beacons			
Victoria Ave	Highland Ave		Signals & Beacons			Medium	26
Fairfax Ln	Union St		Curb Treatments	Curb Ramps		Medium	26
Orange St	Greenspot Rd	Boulder Ave	Sidewalks & Paths	Sidewalk Gap	0.22	Medium	26
6th St	Tippecanoe Ave	Sterling Ave	Sidewalks & Paths	Sidewalk Gap	0.99	Medium	26
Cunningham St	Base Line St	9th St	Sidewalks & Paths	Sidewalk Gap	0.38	Low	26
TOTAL					7.46		

Table 15. Recommended Pedestrian Projects Including Quantity, Length, and Cost Estimate: Tier 2

Corridor	Cross Street	To	Facility Category	Description	Length	Cost Estimate	Priority Score
5th St	Marilyn Ave		Curb Treatments	Curb Ramps		Medium	25
5th St	Donna Dr		Curb Treatments	Curb Ramps		Medium	25
5th St	Fairfax Ln		Curb Treatments	Curb Ramps		Medium	25
9th St	Sterling Ave		Transit Stop Amenities	Bus Shelter		Medium	25
Palm Ave	Meines St		Transit Stop Amenities	Bus Shelter		Medium	25
Palm Ave	Cypress St		Curb Treatments	Curb Extensions		High	25
Palm Ave	Harlan Ln		Curb Treatments	Curb Ramps		Medium	25
Palm Ave	Norwood St		Transit Stop Amenities	Bus Shelter		Medium	25
Del Rosa Ave	5th St	3rd St	Pedestrian-Scale Lighting	Lighting	0.26	High	25
9th St	Valaria Dr	Victoria Ave	Sidewalks & Paths	Sidewalk Gap	0.20	Medium	25
Del Rosa Dr	Base Line St		Transit Stop Amenities	Bus Shelter		Medium	24
5th St	Elm St		Curb Treatments	Curb Ramps		Medium	24

Corridor	Cross Street	To	Facility Category	Description	Length	Cost Estimate	Priority Score
Cypress St	McKinley Ave		Curb Treatments	Curb Ramps		Medium	24
Cypress St	Lankershim Ave		Curb Treatments	Curb Ramps		Medium	24
Base Line St	Sterling Ave		Curb Treatments	Curb Extensions		High	24
Base Line St	McKinley St		Curb Treatments	Curb Extensions		High	24
Del Rosa Dr	Pacific St	Base Line St	Sidewalks & Paths	Sidewalk Gap	0.50	Medium	24
Sterling Ave	7th St	6th St	Sidewalks & Paths	Sidewalk Gap	0.10	Medium	24
Palm Ave	Pacific St	Base Line St	Pedestrian-Scale Lighting	Lighting	0.50	High	24
Del Rosa Dr	6th St		Transit Stop Amenities	Bus Shelter		Medium	21
Base Line St	Church Ave		Transit Stop Amenities	Bus Shelter		Medium	21
Base Line St	Seine Ave		Transit Stop Amenities	Bus Shelter		Medium	21
Base Line St	Stoney Creek Dr		Transit Stop Amenities	Bus Shelter		Medium	21
Cunningham St	Crest St	3rd St	Curb Treatments	Curb Ramps		Medium	21
Central Ave	Meines St	Victoria Ave	Transit Stop Amenities	Bus Shelter		Medium	21
Central Ave	Hibiscus St		Transit Stop Amenities	Bus Shelter		Medium	21

Corridor	Cross Street	To	Facility Category	Description	Length	Cost Estimate	Priority Score
New Path	Victoria Ave	Schools	Sidewalks & Paths	Sidewalk Gap	0.26	Medium	21
6th St	Tippecanoe Ave	Sterling Ave	Pedestrian-Scale Lighting	Lighting	0.99	High	21
Union St	Tippecanoe Ave	Faifax Ln	Sidewalks & Paths	Sidewalk Gap	0.22	Medium	21
Del Rosa Dr	4th St		Curb Treatments	Curb Ramps		Medium	20
Del Rosa Dr	5th St		Curb Treatments	Curb Ramps		Medium	20
Tippecanoe Ave	5th St	Base Line St	Curb Treatments	Curb Ramps		Medium	20
5th St	Michael Dr	6th St	Curb Treatments	Curb Ramps		Medium	20
5th St	Del Rose Ave	Base Line St	Curb Treatments	Curb Ramps		Medium	20
5th St	Shirley Ave		Curb Treatments	Curb Ramps		Medium	20
Tippecanoe Ave	6th St		Curb Treatments	Curb Ramps		Medium	20
5th St	Del Rosa Ave		Curb Treatments	Curb Ramps		Medium	20
Del Rosa Ave	4th St		Curb Treatments	Curb Ramps		Medium	20
4th St	Marilyn Ave		Curb Treatments	Curb Ramps		Medium	20
4th St	Shirley Ave		Curb Treatments	Curb Ramps		Medium	20

Corridor	Cross Street	To	Facility Category	Description	Length	Cost Estimate	Priority Score
Fairfax Ln	Vine St		Curb Treatments	Curb Ramps		Medium	20
Fairfax Ln	7th St	Schools	Curb Treatments	Curb Ramps		Medium	20
9th St	Lankershim Ave	Sterling Ave	Transit Stop Amenities	Bus Shelter		Medium	20
9th St	Hillview St	Faifax Ln	Curb Treatments	Curb Ramps		Medium	20
9th St	Central Ave		Transit Stop Amenities	Bus Shelter		Medium	20
Base Line St	Valaria Dr		Transit Stop Amenities	Bus Shelter		Medium	20
Base Line St	Cole Ave		Transit Stop Amenities	Bus Shelter		Medium	20
Sterling Ave	11th St		Signals & Beacons	Mid-block crossing (possibly raised) with flashing beacons		Medium	20
6th St	.Victoria Ave		Curb Treatments	Curb Ramps		Medium	20
5th St	Tippecanoe Ave	Sterling Ave	Sidewalks & Paths	Sidewalk Gap	0.76	Medium	20
Donna Dr	5th St	cul a sac	Sidewalks & Paths	Sidewalk Gap	0.07	Medium	20
Cypress St	McKinley St	Victoria Ave	Sidewalks & Paths	Sidewalk Gap	0.59	Medium	20
11th St	Sterling Ave	cul a sac	Sidewalks & Paths	Sidewalk Gap	0.31	Medium	20
TOTAL					4.76		

Table 16. Recommended Pedestrian Projects Including Quantity, Length, and Cost Estimate: Tier 3

Corridor	Cross Street	To	Facility Category	Description	Length	Quantity	Cost Estimate	Priority Score
5th St	Bonnie St		Curb Treatments	Curb Ramps		2	Medium	19
Cypress St	Eucalyptus Dr		Curb Treatments	Curb Ramps		2	Medium	19
Cypress St	Grape St		Curb Treatments	Curb Ramps		2	Medium	19
Lankershim Ave	5th St		Curb Treatments	Curb Ramps		4	Medium	19
6th St	Eucalyptus Dr		Curb Treatments	Curb Ramps		2	Medium	19
6th St	Grape St		Curb Treatments	Curb Ramps		2	Medium	19
Del Rosa Dr	Pacific St	Base Line St	Pedestrian-Scale Lighting	Lighting	0.50	1	High	19
Pacific St	Orange St	Palm Ave	Sidewalks & Paths	Sidewalk Gap,	0.25	2	Medium	19
Greenspot Rd	Orange St		Curb Treatments	Curb Extensions		1	High	18
Base Line St	Church St		Curb Treatments	Curb Extensions		4	High	18
Pacific St	Cole Ave		Curb Treatments	Curb Ramps		2	Medium	18
Pacific St	Center St		Curb Treatments	Curb Ramps		2	Medium	18
Pacific St	Palm Ave		Traffic Calming	Traffic Circle		1	High	18

Corridor	Cross Street	To	Facility Category	Description	Length	Quantity	Cost Estimate	Priority Score
Church Ave	Powell Dr	5th St	Sidewalks & Paths	Sidewalk Gap	0.20	2	Medium	18
Greenspot Rd	Gold Buckle Rd	Alta Vista	Sidewalks & Paths	Sidewalk Gap	0.74	1	Medium	18
Base Line St	Guthrie St		Transit Stop Amenities	Bus Shelter		1	Medium	17
Base Line St	Palm Ave		Transit Stop Amenities	two-bus shelters		2	Medium	17
Highland Ave	Victoria Ave		Curb Treatments	Curb Extensions		4	High	17
Greenspot Rd	Alta Vista		Signals & Beacons	Traffic Signal		1	High	16
Del Rosa Dr	6th St	5th St	Sidewalks & Paths	Sidewalk Gap	0.13	2	Medium	16
Marilyn Ave	4th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.14	2	Medium	16
Hillview St	Bruce St	9th St	Sidewalks & Paths	Sidewalk Gap	0.29	2	Medium	16
Palm Ave	5th St		Curb Treatments	Curb Extensions		4	High	15
5th St	Tippecanoe Ave	Sterling Ave	Pedestrian-Scale Lighting	Lighting	0.77	1	High	15
4th St	Marilyn Ave	Shirley Ave	Sidewalks & Paths	Sidewalk Gap	0.42	2	Medium	15
Michael Dr	5th St	cul a sac	Sidewalks & Paths	Sidewalk Gap	0.07	2	Medium	15
Shirley Ave	5th St	cul a sac	Sidewalks & Paths	Sidewalk Gap	0.09	2	Medium	15

Corridor	Cross Street	To	Facility Category	Description	Length	Quantity	Cost Estimate	Priority Score
Vine St	Tippecanoe Ave	Fairfax Ln	Sidewalks & Paths	Sidewalk Gap	0.23	2	Medium	15
9th St	Cunningham St	Hillview St	Sidewalks & Paths	Sidewalk Gap	0.07	1	Medium	15
9th St	Central Ave	Cole Ave	Sidewalks & Paths	Sidewalk Gap	0.25	1	Medium	15
Olive St	cul a sac	Lankershim Ave	Sidewalks & Paths	Sidewalk Gap	0.04	2	Medium	15
Lankershim Ave	cul a sac	Olive St	Sidewalks & Paths	Sidewalk Gap	0.05	2	Medium	15
Central St	5th St	3rd St	Sidewalks & Paths	Sidewalk Gap	0.13	2	Medium	15
Central Ave	Base Line St	10th St	Sidewalks & Paths	Sidewalk Gap	0.27	1	Medium	15
Lankershim Ave	Cypress St		Traffic Calming	Traffic Circle		1	High	14
Eucalyptus Dr	Cypress St	6th St	Sidewalks & Paths	Sidewalk Gap	0.25	2	Medium	14
Grape St	Cypress St	6th St	Sidewalks & Paths	Sidewalk Gap	0.25	2	Medium	14
Pacific St	Sterling Ave		Curb Treatments	Curb Extensions		4	High	13
Orange St	Millar St	Clifton Ave	Sidewalks & Paths	Widen Sidewalk	0.31	2	Medium	13
Pacific St	Palm Ave	Church Ave	Sidewalks & Paths	Sidewalk Gap	0.25	2	Medium	13
Church Ave	14th St	Base Line St	Sidewalks & Paths	Sidewalk Gap	0.19	1	Medium	13

Corridor	Cross Street	To	Facility Category	Description	Length	Quantity	Cost Estimate	Priority Score
Pacific St	Victoria Ave		Curb Treatments	Curb Extensions		4	High	12
Central Ave	14th St	Messina St	Sidewalks & Paths	Sidewalk Gap	0.18	1	Medium	12
Base Line St	Church Ave		Curb Treatments	Curb Extensions		4	High	11
Central Ave	Cypress St		Traffic Calming	Traffic Circle		1	High	11
Base Line St	Victoria Ave		Curb Treatments	Curb Extensions		4	High	10
Base Line St	Central Ave		Curb Treatments	Curb Extensions		4	High	10
9th St	Lankershim Ave		Curb Treatments	Curb Extensions		4	High	10
Webster St	Eucalyptus Ave		Traffic Calming	Traffic Circle		1	High	9
Base Line St	Boulder Ave		Curb Treatments	Curb Extensions		4	High	8
Base Line St	Palm Ave		Curb Treatments	Curb Extensions		4	High	7
TOTAL					6.10	111		

MAINTENANCE AND OPERATIONS

Maintaining active transportation networks is equally as important as building out the system. Keeping infrastructure in good working order enables communities to derive an ongoing return on their investment, while demonstrating cities' ongoing commitment to providing a safe and functional system for their residents and visitors.

Regular active transportation facility maintenance includes sweeping, maintaining a smooth pavement and street surface, ensuring that the gutter-to-pavement transition remains relatively flush, trash collection, and restriping.

Maintenance costs almost exclusively rely on local funding. Typical costs for maintenance activities are listed in the table below (see Table 17).

Additional information regarding maintenance and operations of active transportation facilities can be found in Appendix C: Maintenance and Operations.

Table 17. Average Maintenance Activity Costs

Maintenance Activity	Average Replacement Value
Sidewalk Repair	\$12 per square foot
Asphalt Path	\$8 per square foot

FUNDING

Coordination with Other Agencies & Departments

Highland neighbors other jurisdictions, including the City of San Bernardino and the City of Redlands. The City of Highland will continue to work with adjacent cities to align priorities for projects where facilities abut boundaries. The City also commits to continue integrating active transportation projects with the regional network of walkways and bikeways in partnership with county agencies and regional bodies such as San Bernardino County Public Works. Lastly, as Caltrans is a large funding source for active transportation projects within the states, and further maintains freeways inside the Highland boundaries, additional coordination with this agency is important.

Funding Sources

As with many jurisdictions in the region, Highland relies heavily on regional, state, and federal funding sources to implement bicycle and pedestrian infrastructure projects and programs. Typically, these dollars are distributed to jurisdictions throughout California through a competitive grant process.

Transportation funding can change drastically when there are modifications to policies and new taxes and fees are adopted. In 2017, state-level funding for transportation grew through increases in the statewide gas tax and vehicle registration fee (SB 1). The California State Legislature passed these increases to address the growing backlog of roadway maintenance issues statewide, coupled with the adoption of several climate initiatives, such as cap-and-trade, which brings new revenue to the state from the sale and transfer of emission credits.

Federal transportation funding is primarily secured through grant programs run by state and regional agencies such as SCAG and Caltrans. Federal funding is perhaps the most uncertain, as the primary federal source of funding—the gas tax—has not been raised since 1993. Federal revenue for transportation is allocated through the federal surface transportation bill, which is developed and authorized by Congress infrequently.

A list of potential funding sources and the types of projects eligible for these sources is provided in Table 18; additional details about each funding source are available in Appendix B. Sources that the City of Highland will prioritize are highlighted with a gold star. As the funding environment is constantly changing, many of the sources identified may be discontinued or new funding opportunities may become available. City staff will remain vigilant and maintain focus on adapting to secure funding from sources of revenue as opportunities arise.

Table 18. Funding Sources

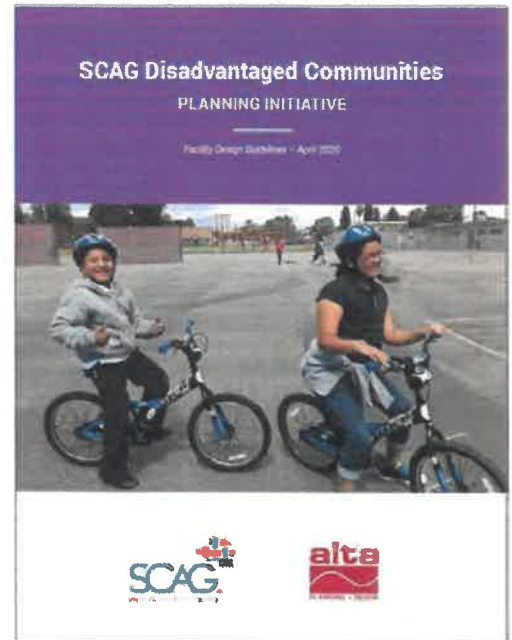
	On-Street Bikeways	Pedestrian Infrastructure	Trails	Safe Routes to School	Safe Routes to Transit	Crossings/ Intersections	Bicycle Parking Facilities	Programs	Studies
FUNDING SOURCE									
Federal Sources									
Fixing America's Surface Transportation Act (FHWA)	✓	✓	✓	✓		✓		✓	
Congestion Mitigation and Air Quality Improvement Program (FHWA)	✓	✓	✓	✓					
Bus and Bus Facilities Grant Program (FTA)	✓				✓		✓		
★ Highway Safety Improvement Program (HSIP)	✓	✓		✓	✓	✓			
Better Utilizing Investments to Leverage Development (BUILD) Discretionary Grants (USDOT)	✓	✓	✓			✓	✓	✓	
Community Development Block Grant (CDBG) Program (US HUD)	✓	✓	✓			✓			
National Priority Safety Program (NHTSA)								✓	
Our Town (National Endowment for the Arts)		✓						✓	✓
Urbanized Area Formula Program (FTA)					✓		✓		
Pilot Program for Transit-Oriented Development (TOD) Planning (FTA)					✓				✓
State Sources									
★ Active Transportation Program (CTC)	✓	✓	✓	✓	✓	✓		✓	
★ Sustainable Transportation Planning Grants (Caltrans)									✓
Transportation Development Act Article III (SB 821, Caltrans)	✓	✓	✓	✓	✓	✓			

	FUNDING SOURCE	On-Street Bikeways	Pedestrian Infrastructure	Trails	Safe Routes to School	Safe Routes to Transit	Crossings/ Intersections	Bicycle Parking Facilities	Programs	Studies
	State Transportation Improvement Program (CTC)	✓	✓	✓			✓			
	Local Partnership Program (CTC)	✓	✓		✓	✓	✓		✓	
	Solutions for Congested Corridors (CTC)	✓	✓	✓			✓			
★	Office of Traffic Safety (CA OTS)								✓	
	Environmental Enhancement and Mitigation Funds (CA NRA)			✓						
	Recreational Trails Program (CA DPR)			✓						
★	Affordable Housing & Sustainable Communities (CA HCD)	✓	✓			✓	✓	✓	✓	
	Urban Greening Grants (CA NRA)	✓	✓	✓	✓	✓	✓			
	Land and Water Conservation Fund (CA DPR)			✓						
	Habitat Conservation Fund			✓						
	Road Maintenance and Rehabilitation Program (Controller's Office)	✓	✓		✓	✓				✓
	Coastal Conservancy Proposition 1 Grants (SCC)	✓	✓	✓			✓			
	Regional + Local Sources									
★	Sustainability Planning Grant (SCAG)				✓	✓				✓
	Benefit Assessment Districts	✓	✓	✓			✓	✓		

FUNDING SOURCE	On-Street Bikeways	Pedestrian Infrastructure	Trails	Safe Routes to School	Safe Routes to Transit	Crossings/ Intersections	Bicycle Parking Facilities	Programs	Studies
Community Facilities Districts or Mello-Roos	✓	✓	✓			✓			
Enhanced Infrastructure Financing District (EIFD)	✓	✓	✓			✓			
Private Sources									
Community Grant Program (PeopleForBikes)	✓		✓				✓		
Plan4Health Coalitions (APA & APHA)									✓
Doppelt Family Trail Development Fund (Rails-to-Trails Conservancy)			✓						
10-Minute Walk Campaign (National Recreation and Park Association)									✓
American Greenways Eastman Kodak Awards (Getches-Wilkinson Center)			✓						✓

DESIGN GUIDELINES

As part of the Disadvantaged Communities Planning Initiative, SCAG and the project team prepared a set of **Facility Design Guidelines** that participating communities may use to create a pedestrian- and bicycle-friendly, safe, and accessible community. These guidelines are not a substitute for a more thorough evaluation by a professional upon implementation of facility improvements, but instead offer an overview of best practices established across the nation. The guidelines build off of national and state guidance, and are not intended to replace existing state or national mandatory or advisory standards nor the exercise of engineering judgment by licensed professionals, but will instead help inform the City's decisions when evaluating new projects. National and state design guidance and details can be found in the following documents.



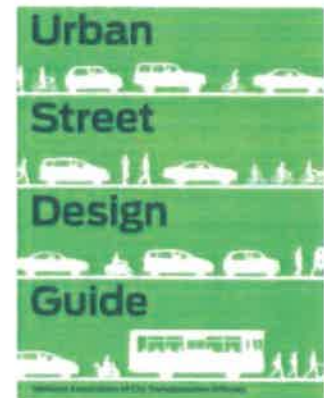
National Guidance

The **American Association of State Highway and Transportation Officials (AASHTO) Guide for the Planning, Design, and Operation of Pedestrian Facilities (2004)** provides comprehensive guidance on planning and designing for people on foot and using other mobility devices such as wheelchairs.

Offering similar guidance for bicycle facility design, the **AASHTO Guide for the Development of Bicycle Facilities (2012)** provides guidance on dimensions, use, and layout of specific bicycle facilities.

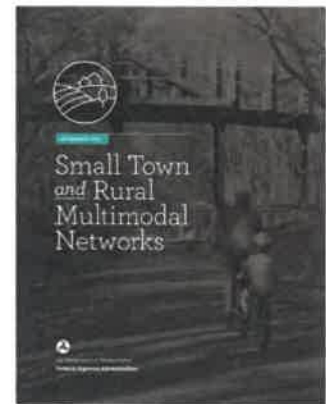
The **National Association of City Transportation Officials' (NACTO) Urban Street Design Guide (2013)** is the newest publication of nationally recognized urban street design standards, and offers guidance on the current state of the practice designs.

AASHTO's **A Policy on Geometric Design of Highways and Streets (2011)**, commonly referred to as the "Green Book," contains current design research and practices for highway and street geometric design.



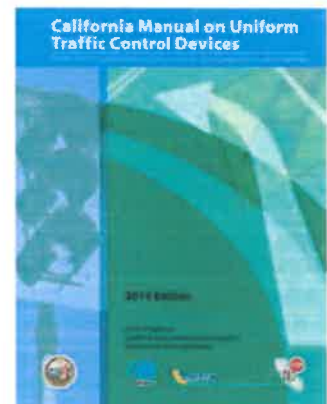
Separated Bike Lane Planning and Design Guide (2015) is the latest national guidance on the planning and design of separated bike lane facilities released by the Federal Highway Administration (FHWA). The resource documents best practices as demonstrated around the U.S., and offers ideas on future areas of research, evaluation and design flexibility.

The FHWA's **Small Town and Rural Multimodal Networks Report (2016)** is a resource to help small towns and rural communities support safe, accessible, comfortable, and active travel for people of all ages and abilities. It provides an overview of bicycle and pedestrian designs for these communities, as well as examples of peer communities.



State Guidance

The **California Manual on Uniform Traffic Control Devices (CA MUTCD) (2014)** is an amended version of the FHWA MUTCD 2009 edition modified for use in California. While standards presented in the CA MUTCD substantially conform to the FHWA MUTCD, the state of California follows local practices, laws, and requirements with regards to signing, striping, and other traffic control devices. As of publication, the document has been published as Revision 4 in March 2019.



The **California Highway Design Manual (HDM) (Updated 2015)** establishes uniform policies and procedures to carry out highway design functions for the California Department of Transportation.

Complete Intersections: A Guide to Reconstructing Intersections and Interchanges for Bicyclists and Pedestrians (2010) is a reference guide presenting information and concepts related to improving conditions for pedestrians and bicycle riders at major intersections and interchanges. The guide can be used to inform minor signage and striping changes to intersections, as well as major changes and designs for new intersections.

Main Street, California: A Guide for Improving Community and Transportation Vitality (2013) reflects California's current manuals and policies that improve multimodal access, livability, and sustainability

within the transportation system. The guide recognizes the overlapping and sometimes competing needs of main streets, especially those that are operated as part of the State's highway system.

Caltrans produced a memorandum entitled **Design Flexibility in Multimodal Design (2014)** that encourages flexibility in highway design. The memo stated that "Publications such as NACTO's Urban Street Design Guide and Urban Bikeway Design Guide... are resources that Caltrans and local entities can reference when making planning and design decisions on the State highway system and local streets and roads."

Section 9

APPENDIX

9. Appendix

APPENDIX A: ATP COMPLIANCE CHECKLIST

Subject	Requirement	Section(s)
Mode Share	The estimated number of existing bicycle trips and pedestrian trips in the plan area, both in absolute numbers and as a percentage of all trips, and the estimated increase in the number of bicycle trips and pedestrian trips resulting from implementation of the plan.	Chapters 3 & 6
Description of Land Use/Destinations	A map and description of existing and proposed land use and settlement patterns which must include, but not be limited to, locations of residential neighborhoods, schools, shopping centers, public buildings, major employment centers, major transit hubs, and other destinations. Major transit hubs must include, but are not limited to, rail and transit terminals, and ferry docks and landings.	Chapter 3
Pedestrian Facilities	A map and description of existing and proposed pedestrian facilities, including those at major transit hubs and those that serve public and private schools.	Chapters 4 & 6
Bicycle Facilities	A map and description of existing and proposed bicycle transportation facilities including those at major transit hubs and those that serve public and private schools.	Chapters 4 & 6
Bicycle Parking	A map and description of existing and proposed end-of-trip bicycle parking facilities. Include a description of existing and proposed policies related to bicycle parking in public locations, private parking garages and parking lots and in new commercial and residential developments. Also include a map and description of existing and proposed bicycle transport and parking facilities for connections with and use of other transportation modes. These must include, but not be limited to, bicycle parking facilities at transit stops, rail and transit terminals, ferry docks and landings, park and ride lots, and provisions for transporting bicyclists and bicycles on transit or rail vehicles or ferry vessels.	Chapters 4 & 6

Subject	Requirement	Section(s)
Wayfinding	A description of existing and proposed signage providing wayfinding along bicycle and pedestrian networks to designated destinations.	Chapters 4 & 6
Non-Infrastructure	A description of existing and proposed bicycle and pedestrian education, encouragement, enforcement, and evaluation programs conducted in the area included within the plan. Include efforts by the law enforcement agency having primary traffic law enforcement responsibility in the area to enforce provisions of the law impacting bicycle and pedestrian safety, and the resulting effect on collisions involving bicyclists and pedestrians.	Chapters 4 & 7
Collision Analysis	The number and location of collisions, serious injuries, and fatalities suffered by bicyclists and pedestrians in the plan area, both in absolute numbers and as a percentage of all collisions and injuries, and a goal for collision, serious injury, and fatality reduction after implementation of the plan.	Chapters 4 & 6
Equity Analysis	Identify census tracts that are considered to be disadvantaged or low-income and identify bicycle and pedestrian needs of those disadvantaged or low-income residents.	Chapter 3
Community Engagement	A description of the extent of community involvement in development of the plan, including disadvantaged and underserved communities.	Chapter 5
Coordination	A description of how the active transportation plan has been coordinated with neighboring jurisdictions, including school districts within the plan area, and is consistent with other local or regional transportation, air quality, or energy conservation plans, including, but not limited to, general plans and a Sustainable Community Strategy in a Regional Transportation Plan.	Chapter 3
Prioritization	A description of the projects and programs proposed in the plan and a listing of their priorities for implementation, including the methodology for project prioritization and a proposed timeline for implementation.	Chapter 8
Funding	A description of future financial needs for projects and programs that improve safety and convenience for bicyclists and pedestrians in the plan area. Include anticipated cost, revenue	Chapter 8 & Appendix B

Subject	Requirement	Section(s)
	sources and potential grant funding for bicycle and pedestrian uses.	
Implementation	A description of steps necessary to implement the plan and the reporting process that will be used to keep the adopting agency and community informed of the progress being made in implementing the plan.	Chapter 8
Maintenance	A description of the policies and procedures for maintaining existing and proposed bicycle and pedestrian facilities, including, but not limited to, the maintenance of smooth pavement, ADA level surfaces, freedom from encroaching vegetation, maintenance of traffic control devices including striping and other pavement markings, and lighting	Chapter 8 & Appendix C
Resolution	A resolution showing adoption of the plan by the city, county or district. If the active transportation plan was prepared by a county transportation commission, regional transportation planning agency, MPO, school district or transit district, the plan should indicate the support via resolution of the city(s) or county(s) in which the proposed facilities would be located.	Appendix E

APPENDIX B: FUNDING SOURCES

Federal Sources

FIXING AMERICA'S SURFACE TRANSPORTATION ACT (FAST ACT)

The FAST Act, which replaced Moving Ahead for Progress in the 21st Century Act (MAP-21) in 2015, provides long-term funding certainty for surface transportation projects. This means states and local governments can move forward with critical transportation projects with the confidence that they will have a Federal partner over the long term (i.e. for at least five years).

The law makes changes and reforms to many Federal transportation programs. For example, it allows local entities that are direct recipients of Federal dollars to use a design publication that is different than one used by their State DOT, such as the Urban Bikeway Design Guide by the National Association of City Transportation Officials.

CONGESTION MITIGATION AND AIR QUALITY IMPROVEMENT PROGRAM (CMAQ)

CMAQ provides funding to state and local agencies for transportation projects that help meet Clean Air Act objectives. Funded projects must work to reduce congestion and improve area quality in nonattainment or maintenance zones for ozone, carbon monoxide or particulate matter. CMAQ funds can be used for bicycle and pedestrian projects that are included in the metropolitan planning organization's (MPO) current transportation plan and transportation improvement program (TIP). Projects can include bicycle and pedestrian facilities that are not exclusively recreational and for outreach related to safe bicycle use. Studies that are part of the project development pipeline (e.g., preliminary engineering) are also eligible for funding.

CMAQ funding is administered at the local level through the Southern California Association of Governments (SCAG). These funds are eligible for transportation projects that contribute to the attainment or maintenance of National Ambient Air Quality Standards in non-attainment or air quality maintenance areas. Examples of eligible projects include enhancements to existing transit services, rideshare and vanpool programs, projects that encourage bicycle transportation options, traffic light synchronization projects that improve air quality, grade separation projects, and construction of high-occupancy vehicle (HOV) lanes. Projects that are proven to reduce direct PM2.5 emissions are to be given priority

BUS AND BUS FACILITIES GRANT PROGRAM

The Federal Transit Administration (FTA) offers formula allocations and grants to a variety of organizations, including local governments, to pay for buses and related facilities. Agencies can use these funds to pay for bicycle routes to transit, bike racks, bike shelters, and bicycle equipment for public transportation vehicles.



HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP)

This federal program provides funding to states for projects that help communities achieve significant reductions in traffic fatalities and serious injuries on all public roads, bikeways, and walkways. Eligible projects include pedestrian safety improvements, traffic calming projects, and crossing treatments in school zones. Non-infrastructure projects are not eligible. All HSIP projects must be consistent with the state's Strategic Highway Safety Plan. Funding is available up to \$10 million and requires a 10% match.

[Learn more about how the HSIP funding is awarded in California.](#)

BETTER UTILIZATION INVESTMENTS TO LEVERAGE DEVELOPMENT DISCRETIONARY GRANT (BUILD)

The BUILD (formerly TIGER) reimbursement grant, available through the U.S. Department of Transportation, allows sponsors at the State and local levels to obtain funding for multi-modal, multi-jurisdictional projects that are more difficult to support through traditional funding initiatives. Eligible projects include: recreational trails, road diets, separated bike lanes, shared use paths, sidewalks, signal improvements, signed pedestrian or bicycle routes, traffic calming, trailside and trailhead facilities, bicycle parking, racks, repair stations, storage, and bike share programs. A program of projects can be assembled and should demonstrate significant regional impacts and be construction-ready. The minimum grant request in rural areas is \$1 million and in urban areas it is \$5 million.

COMMUNITY DEVELOPMENT BLOCK GRANT PROGRAM

This program funds local development activities, such as affordable housing and anti-poverty programs, in low-to-moderate-income communities, as well as supporting infrastructure. Funds can be used to acquire property and build public facilities such as streets, sidewalks, and recreational facilities. This federal program is administered by the State who makes funds available to eligible agencies (cities and counties).

NATIONAL PRIORITY SAFETY PROGRAM

This program encourages States to address national priorities for reducing highway deaths and injuries through a variety of programs including non-motorized safety. Grants are awarded to State Highway Safety agencies for implementation or disbursement.

OUR TOWN

The Our Town grant program supports creative placemaking projects that help to transform communities into lively, beautiful, and resilient places – achieving these community goals through strategies that incorporate arts, culture, and/or design. Creative placemaking is when art is deliberately integrated into community revitalization work - placing arts at the table with land-use, transportation, economic development, education, housing, infrastructure, and public safety strategies. Grant applicants require partnerships between arts organizations and government, other nonprofit organizations, and private entities. Funding ranges between \$25,000 to \$200,000 per project.

URBANIZED AREA FORMULA PROGRAM

This program makes federal resources available to urbanized areas for transit capital and transit-related planning. An urbanized area is an incorporated area with a population of 50,000 or more. A 20% match is required; however, bicycle facilities, including routes to transit, bike racks, shelters and equipment and can receive a 95% federal share for the first 1% of program funds.

PILOT PROGRAM FOR TRANSIT-ORIENTED DEVELOPMENT PLANNING

This program supports public transportation by providing funding to local communities to integrate land use and transit connections. Projects must improve economic development and ridership, foster multimodal connectivity and accessibility, improve transit access for pedestrian and bicycle traffic, engage the private sector, identify infrastructure needs, and enable mixed-use development near transit stations.

State Sources



ACTIVE TRANSPORTATION PROGRAM (ATP)

California's Active Transportation Program (ATP) funds infrastructure and program projects that support the program goals of shifting trips to walking and bicycling, reducing greenhouse gas emissions, and improving public health. Competitive application cycles occur every one to two years. Eligible projects include bicycling and walking facilities, new or expanded programmatic activities, or

projects that include a combination of infrastructure and non-infrastructure components. Funding for DACs is prioritized. The minimum request for projects is \$250,000. [Learn more about ATP.](#)



SUSTAINABLE TRANSPORTATION PLANNING GRANT PROGRAM

The Sustainable Transportation Planning Grant Program supports transportation planning processes which address local and regional transportation needs and issues. The program offers two types of grants: Strategic Partnerships and Sustainable Communities, to all levels of government. The Strategic Partnership Grants fund regional agencies to address state highway system deficiencies, strengthen government relationships, and result in programmed system improvements. The Sustainable Communities Grants fund a variety of projects at all levels of government, including concept design. Projects are expected to “identify and address mobility deficiencies in the multimodal transportation system, encourage stakeholder collaboration, involve active public engagement, integrate Smart Mobility 2010 concepts, and ultimately result in programmed system improvements.” [Learn more about this Caltrans funding opportunity.](#)

TRANSPORTATION DEVELOPMENT ACT (TDA) / ARTICLE III (SB 821)

The Transportation Development Act (TDA) Article III (SB 821) uses monies collected from the state gasoline tax to provide grants through Regional Transportation Planning agencies to fund transportation improvements. The San Bernardino County Metropolitan Transportation Authority (SBCTA) is responsible for allocating this money on a per capita basis to cities within San Bernardino County with a focus on active transportation and public transit development. These cities have the option to either draw down the funds or to place them on reserve.

STATE TRANSPORTATION IMPROVEMENT PROGRAM

STIP funds are available for new construction projects that add capacity to the transportation network. Funding is a mix of state, federal, and local taxes and fees; and consists of two components: Caltrans’ Interregional Transportation Improvement Program (ITIP) and regional transportation planning agencies’ Regional Transportation Improvement Program (RTIP). Pedestrian and bicycle projects may be programmed under ITIP and RTIP.

LOCAL PARTNERSHIP PROGRAM

This program provides local and regional transportation agencies that have passed sales tax measures, developer fees, or other imposed transportation fees with a continuous appropriation of \$200 million

annually to fund transportation improvement projects including biking, walking, safety and health-related projects.

SOLUTIONS FOR CONGESTED CORRIDORS PROGRAM

The program provides funding to achieve a balanced set of transportation, environmental, and community access improvements to reduce congestion throughout the state. This statewide, competitive program makes \$250 million available annually for projects that implement specific transportation performance improvements and are part of a comprehensive corridor plan by providing more transportation choices while preserving the character of local communities and creating opportunities for neighborhood enhancement. All projects nominated must be identified in a currently adopted regional transportation plan and an existing comprehensive corridor plan.



OFFICE OF TRAFFIC SAFETY GRANTS

These grants can be used to fund existing or new traffic safety programs. Proposals should include the seriousness of the problem, crash statistics, and potential traffic safety impacts. Grants for bicycle and pedestrian safety programs have included bicycle rodeos education programs in schools, free helmets, education for older adults, and Vision Zero outreach, among others. [Learn more about the California Office of Traffic Safety \(OTS\) grants here.](#)

ENVIRONMENTAL ENHANCEMENT AND MITIGATION FUNDS

The California Natural Resources Agency provides grants to projects that indirectly mitigate the environmental impacts of new transportation facilities. Funds are available for land acquisition and construction and should fall into one of the following three categories: urban forestry projects, resource lands projects, or mitigation projects beyond the scope of the lead agency. The local Caltrans district must support the project. The average award amount is \$250,000.

RECREATIONAL TRAILS PROGRAM

This program provides funding to develop and maintain recreational trails and facilities. Funding can be used for: maintenance and restoration of existing trails; purchase and lease of trail construction and maintenance equipment; construction of new trails, including unpaved trails; acquisition of easements or property; or operation of educational programs to promote safety and environmental protection. The State Department of Parks and Recreation administers the funds and requires a 12% local match.

★ **AFFORDABLE HOUSING AND SUSTAINABLE COMMUNITIES PROGRAM**

This program provides grants and affordable housing loans for transit-oriented development and related infrastructure and programs that reduce greenhouse gas emissions. Bikeway, walkway, and trail projects are key elements of successful affordable housing grant applications and must connect the housing site to transit or other key destinations (school, health care, etc.). At least 50% of AHSC Program funds must be for affordable housing (which includes affordable housing developments or housing-related infrastructure). Funding amounts for sustainable transportation infrastructure vary depending on project type. [Visit the California Department of Housing and Community Development to learn more.](#)

★ **URBAN GREENING GRANTS**

Urban Greening Grants support the development of green infrastructure projects that reduce GHG emissions and provide multiple benefits. Projects must include one of three criteria: sequester and store carbon by planting trees; reduce building energy use through shade trees; or reduce commute vehicle miles traveled by constructing bicycle paths, bicycle lanes or pedestrian facilities that provide safe routes for travel between residences, workplaces, commercial centers, and schools. Eligible projects include green streets and alleyways, parks, urban heat island mitigation, and non-motorized urban trails that integrate or mimic natural systems. Projects must be able to demonstrate a reduction in GHG emissions using CARB's approved methodology.

Funds are programmed by the California Natural Resources Agency. Approximately \$28.5 million of funding is available; no minimum or maximum amount of funding must be requested. Funding for DACs and low-income communities is prioritized. [Learn more about the Urban Greening Grant here.](#)

LAND AND WATER CONSERVATION FUND

The Land and Water Conservation Fund is a federal program that provides grants for planning and acquiring outdoor recreation areas and facilities, including trails. In California, the fund is administered by the California State Parks Department. Cities, counties, and districts authorized to acquire and develop park and recreation space are eligible for grant funding. While nonprofits are ineligible, they are allowed to apply in partnerships with eligible agencies. Applicants must fund the project entirely and will be reimbursed for half of the cost.

HABITAT CONSERVATION FUND

This fund allocates approximately \$2 million each year to cities, counties, and districts for nature interpretation programs to bring urban residents into park and wildlife areas, protection of various plant

and animal species, and the acquisition and development of wildlife corridors and trails. Funds are available for trail maintenance, interpretive signage, lighting, and waysides. The program requires a 50% match.

ROAD MAINTENANCE AND REHABILITATION PROGRAM (SB 1)

Senate Bill 1 (SB1) created the Road Maintenance and Rehabilitation Program (RMRP) to address deferred maintenance on state highways and local road systems. Program funds can be spent on both design and construction efforts. On-street active transportation related maintenance projects are eligible if program maintenance and other thresholds are met. Funds are allocated to eligible jurisdictions. Funds are programmed by the State Controller's Office with guidance from the CTC.

COASTAL CONSERVANCY PROPOSITION 1 GRANTS

These grants fund ecosystem and watershed protection and restoration projects focused on water sustainability, wetland restoration and urban greening. These grants can be used for the urban greening or water sustainability elements incorporated in bikeway, walkway and trail projects and funding can be used for planning, land acquisition, and construction though there is a focus on supporting projects that will be quickly built.

Regional & Local Sources



SUSTAINABILITY PLANNING GRANT

The program provides technical assistance and a variety of grants to SCAG member jurisdictions. Grants are available in three categories: Integrated Land Use (Sustainable Land Use Planning, Transit Oriented Development (TOD) and Land Use & Transportation Integration); Active Transportation (Bicycle, Pedestrian and Safe Routes to School Plans); and Green Region (Natural Resource Plans, Climate Action Plans (CAPs) and Greenhouse Gas (GHG) Reduction programs). The program also funds quick-build projects. [Learn more about SCAG's Sustainability Planning Grant.](#)

BENEFIT ASSESSMENT DISTRICTS

Benefit Assessment Districts are used by local governments in California to pay for the cost of providing services to a community. Charges to the community are based on the concept of assessing only those properties that directly benefit from the service. Bikeways, walkways, trails, and related facilities can be funded; however, care must be taken when defining the community boundary as active transportation projects have regional benefits.

COMMUNITY FACILITIES DISTRICTS OR MELLO-ROOS

The Mello-Roos Community Facilities Act allows any county, city, special district, school district, or joint powers of authority to establish a Community Facility Districts (CFD) for the purpose of selling tax-exempt bonds to fund public improvements within that district. Through the process of creating the local goals for a CFD, there is flexibility in how the funds are used. For example, the City of Sacramento included bicycle services in their CDF that included bicycle racks and lockers at public civic uses, bicycle racks on transit vehicles, bikeshare programs, electrified bicycle promotion, and bicycle fairs.

ENHANCED INFRASTRUCTURE FINANCING DISTRICTS (EIFD)

EIFDs were approved by the California Legislature in 2015 to allow communities to establish specific districts in which they can collect local property tax revenues to fund local infrastructure projects.

Private Sources

PEOPLEFORBIKES COMMUNITY GRANT PROGRAM

This grant program is funded by members of the bicycle industry who want to make it easier and safer for people of all ages and abilities to ride. This program supports bicycle infrastructure projects including bike paths, lanes, trails, and bridges, as well as bike parks and pump tracks. Also included are end-of-trip facilities such as bike racks, bike parking, bike repair stations and bike storage. Funding can be used for engineering and design work, construction costs including materials, labor, and equipment rental, and reasonable volunteer support costs. The grant provides up to \$10,000, and while it does not require a match, the grant should be no more than 50% of the projects overall budget.

PLAN4HEALTH COALITIONS

The American Planning Association (APA) and the American Public Health Association (APHA) work to build local capacity in addressing population health goals and promoting the inclusion of health in non-traditional sectors such as transportation. Each proposal must address inactivity, unhealthy diets and/or health equity. Awards average \$150,000, and no more than two awards will be granted in a single state.

DOPPELT FAMILY TRAIL DEVELOPMENT FUND

This fund, overseen by the Rails-to-Trails Conservancy, offers two types of grants. The first, Community Support Grants, help nonprofit organizations or "Friends of the Trail" groups that need funding to get trail development or trail improvement efforts off the ground. Awards range from \$5,000 - \$10,000. The second, Project Transformation Grants, enables organizations to complete a significant trail

development or improvement project. Projects on rail-trails and rails-with-trails are given preference, but not required. Awards range from \$15,000 - \$50,000.

10-MINUTE WALK CAMPAIGN

The 10-Minute Walk Campaign offers grants and technical assistance to help cities increase access to high-quality parks within a 10-minute walk.

AMERICAN GREENWAYS EASTMAN KODAK AWARDS

This national program provides small grants (\$500-\$2,500) to local, regional, or statewide non-profit organizations to support the planning and design of greenways. Funds may be used for the planning and design of pathways. Grants are awarded based on the importance of the project to local greenway development efforts, demonstrated community support, extent to which the grant will result in matching funds, likelihood of tangible results, and the capacity of the organization to complete the project.

APPENDIX C: MAINTENANCE AND OPERATIONS

Recommended Maintenance Procedures

Sweeping

- Establish a seasonal sweeping schedule that prioritizes roadways with Long-Term Tier 1 projects.
Sweep walkways and bikeways whenever there is an accumulation of debris.
- In sections with curbs, sweepers should pick up debris; on open shoulders, debris can be swept onto gravel shoulders.

Signage

- Check regulatory and wayfinding signage along bikeways for signs of vandalism, graffiti, or normal wear.
- Replace signage along the bikeway network as-needed.
- Perform a regularly-scheduled check on the status of signage with follow-up as necessary.
- Create a Maintenance Management Plan.

Roadway Surface

- Maintain a smooth pothole-free surface.
- Ensure that on new roadway construction, the finished surface on bikeways does not vary more than 1/4-inch.
- Maintain pavement so that ridge buildup does not occur at the gutter-to-pavement transition or adjacent to railway crossings.
- Inspect the pavement two to four months after trenching construction activities are completed to ensure that excessive settlement has not occurred.

Pavement Overlays

- Extend the overlay over the entire roadway surface to avoid leaving an abrupt edge.
- If the shoulder or bike lane pavement is of good quality, it may be appropriate to end the overlay at the shoulder or bike lane stripe provided no abrupt ridge remains.
- Ensure that inlet grates, manhole and valve covers are within 1/4-inch of the finished pavement surface and are made or treated with slip resistant materials.

Drainage Grates

- Require all new drainage grates to be bicycle-friendly, including grates that have horizontal slats on them so that bicycle tires and assistive devices do not fall through the vertical slats.
- Create a program to inventory all existing drainage grates, and replace hazardous grates as necessary – temporary modifications such as installing rebar horizontally across the grate should not be an acceptable alternative to replacement.

Gutter to Pavement Transition

- Ensure that gutter-to-pavement transitions have no more than a 1/4" vertical transition.
- Examine pavement transitions during every roadway project for new construction, maintenance activities, and construction project activities that occur in streets.

Landscaping

- Ensure that shoulder plants do not hang into or impede passage along bikeways.
- After major damage incidents, remove fallen trees or other debris from bikeways as quickly as possible.

Maintenance Management Plan

- Provide fire and police departments with a map of the system, along with access points to gates/bollards.
- Develop an online tool for riders to report hazards, potholes, and other bicycle-related issues for the County and local jurisdictions to address. Ensure these requests are addressed in a timely manner.
- Provide bicycle detour routes and signs during roadway construction.

Operations

Engagement

- Regularly and consistently engage community members to gain feedback on how existing facilities are operating and areas for improvement.
- Engage community members before, during, and after projects are implemented. Work to ensure projects reflect community needs and serve vulnerable populations.

Implementation and Design

- Implement on-street bicycle and pedestrian facilities proposed in this Plan when completing road rehabilitation and reconstruction projects.
- Design and maintain all streets so that they incorporate Complete Streets standards.
- Adopt an accelerated pavement maintenance schedule for all designated existing and planned bikeways.
- Apply pavement stenciling to indicate detention areas at all traffic signals.
- Identify opportunities to remove travel lanes from roads where there is excess capacity in order to provide new or improved bicycle facilities.
- Install context-sensitive bikeways that consider both the volume, speed, and complement surrounding land uses.

Evaluation

- Work to improve the reporting and analysis of pedestrian and bicyclist involved collisions.
- Measure air quality and reductions in greenhouse gas emissions that may result from a decrease in vehicular use as bicycle use increases.
- Create an annual bicycle and pedestrian count program.
- Regularly monitor implementation of the Active Transportation Plan, and review and update the recommended bicycle and pedestrian facilities every five years.

APPENDIX D: PLANS AND POLICIES

To ensure this Plan is consistent with and builds upon the efforts of various planning, policy, and regulatory documents, the project team conducted a comprehensive review of relevant items. These include the Highland's own documents, such as the General Plan, Municipal Codes, and the General Plan, Municipal Codes, and GreenSpot Specific Plans. Highland also intends to design a bicycle and pedestrian network that complements existing and planned bikeways and pedestrian projects in surrounding jurisdictions. Therefore, the planning context also includes bicycle and pedestrian plans, policies, and projects of neighboring jurisdictions, San Bernardino County, and the State of California.

This Plan will help Highland continue to meet the following goals.

Local

General Plan

Highland's General Plan is a long-range planning document that provides the City a framework for action and the direction in which to focus that action. It serves as the city's primary reference when making development and conservation decisions that involve or impact Highland for both public and privately-owned land. It also serves as a foundation document for City initiatives and resource allocations.

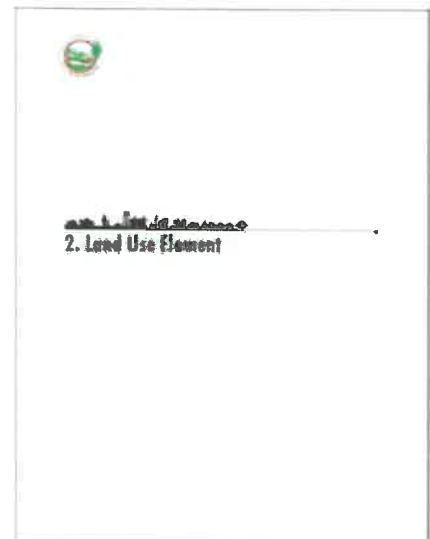
The following elements of the General Plan address issues pertaining to active transportation.

LAND USE ELEMENT

Goal 2.1: Create opportunities for a diverse population to interact, exchange ideas, and establish and realize common goals as a unified community.

- Policy 2 Ensure that the Town Center and Golden Triangle promote safe and convenient pedestrian environments for residents, employees and visitors through the implementation of Land Use and Community Design Element policies and guidelines and Development Code standards.

Goal 2.10: Create a new Town Center where Highland residents, employees and visitors can live, shop, work, recreate and socialize in a vibrant, safe and pedestrian-friendly environment.



- Policy 3 Provide access to multiple modes of travel, including pedestrian, bicycle, transit and automobile.
- Policy 7 Connect the Town Center physically and visually with the Historic Village District with pedestrian connections, historically compatible architecture, signage, landscaping and other streetscape elements.

CIRCULATION ELEMENT

Goal 3.1 Provide a comprehensive transportation system that facilitates current and long-term circulation in and through the City.

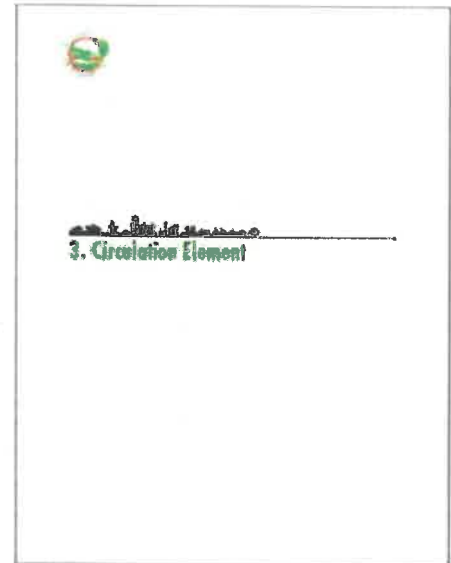
- Policy 10 Encourage major employers to reduce vehicular trips by offering incentive concepts discussed in the General Plan Circulation Element, including but not limited to reduced transit passes and preferential parking for ridesharing.

Goal 3.2 Provide a well-maintained roadway system.

- Policy 1 Maintain and rehabilitate all components of the circulation system, including roadways, sidewalks, bicycle facilities, pedestrian facilities and traffic signals.
- Policy 4 Coordinate maintenance or enhancement of transportation facilities with related infrastructure improvements.

Goal 3.4 Provide a safe circulation system.

- Policy 1 Establish the local street system within developing neighborhoods through a cooperative public/private planning process.
- Policy 3 Promote the principle that streets have multiple uses and users, and protect the safety of all users.
- Policy 4 Require new development to provide pedestrian paths and linkages through projects, locating linkages to avoid conflicts with motorized traffic.
- Policy 5 Discourage high-speed, through traffic on local streets with appropriate traffic-calming measures (e.g., traffic enforcement, bulb-outs, lane striping, chokers, etc.).
- Policy 7 Utilize shared driveways in common areas to minimize disruptions to traffic and pedestrian/bicycle flow.



- Policy 11 Encourage and improve pedestrian connections from residential neighborhoods to retail activity centers, employment centers, schools, parks, open space areas and community centers.
- Policy 12 Encourage barrier-free accessibility for all handicapped residents, employees and visitors throughout the City's circulation system.
- Policy 13 Support the planning of sidewalks of appropriate width to allow the provision of buffers to shield nonmotorized traffic from vehicles.
- Policy 14 Add raised, landscaped medians and bulb-outs, where appropriate, to reduce exposure to cross traffic at street crossings.
- Policy 15 When feasible, walkways should include pedestrian amenities such as shade trees and/or plantings, trash bins, benches and shelters.

Goal 3.7 Protect and encourage bicycle travel.

- Policy 1 Develop a system of continuous and convenient bicycle routes to places of employment, shopping centers, schools, and other high activity areas with potential for increased bicycle use.
- Policy 2 Encourage new development to provide reasonable and secure space for bicycle storage.
- Policy 3 Provide bicycle racks at all public facilities and along major public streets.
- Policy 4 Assure that local bicycle routes will complement regional systems and be compatible with routes of neighboring municipalities.
- Policy 5 Provide linkages between bicycle routes and other trails, such as the Santa Ana River Trail, within the City as appropriate.

Goal 3.8 Incorporate consideration of regional transportation implications into decisions made by the City of Highland and, conversely, incorporate consideration of the local transportation implications on the City of Highland into decisions made by other local agencies, as well as into decisions made by state and federal agencies.

Goal 3.9 Ensure adequate parking is made available to City residents, visitors, and businesses.

- Policy 5 Develop strategies for the control of parking demand such as improved transit service, amenities for bicyclists and rideshare vehicles.

CONSERVATION & OPEN SPACE ELEMENT

Goal 5.10 Maintain a high-quality system of parks that meet the needs of all segments of the community.

- Policy 30 Develop Integrate park and recreation facilities with existing and future trail and bikeways, wherever practical.

Goal 5.12 Develop and maintain trail and bikeway connections to recreational facilities, schools, existing transportation routes, natural features and regional trail systems.

- Policy 1 Provide trail connections between and/or along the major city and surrounding regional facilities, sites and features indicated on the Multi-Use Trails Master Plan.
- Policy 2 Provide bicycle and pedestrian trails along major home-to-work, home-to-school and other travel routes, where appropriate.
- Policy 3 Seek to construct or assist in the construction of those portions of the San Bernardino County Regional Trail system that are located within Highland.
- Policy 4 Require the dedication of trail easements, where appropriate, for establishing a planned trails system alignment, or where an established trail is jeopardized by impending development or subdivision activity.
- Policy 5 Where possible, designate and design new trail development near transit routes or heavily traveled areas.

Goal 5.13 Ensure the maximum safety and enjoyment of all trail system users.

- Policy 3 Adopt the following hierarchy of users on the City's trail system:
 - Bicyclists must yield right-of-way to all other users.
 - Runners must yield to hikers and equestrians (note: horses should not be on trails predominantly intended for bikes and pedestrians).
 - Hikers must yield to equestrians.
- Policy 5 Require that cyclists adhere to the following requirements:
 - Alert hikers and equestrians of their presence.



- Travel no faster than 15 mph, unless conditions warrant reduced speed.
 - Slow to 5 mph when passing and dismount when necessary.
- Policy 6 Promote adherence to the following code of off-road bicycling responsibility, as developed by the International Mountain Bicycling Association:
 - Ride on open trails only.
 - Control your bicycle.
 - Always yield trail.
 - Never spook animals.
 - Leave no trace.
 - Plan Ahead.
- Policy 8 Incorporate, where feasible and without compromising safety, all compatible multiple uses on a single trail.
- Policy 9 Where a single trail is not feasible or there is heavy use, provide alternate or parallel routes and/or design separate, dual trails.
- Policy 10 Allow ample space in right-of-way for safe passage of users, for signing, fencing, separation of trails, trailheads and where appropriate, landscaping.

Goal 5.14 Maintain and enhance the trail system's clear and informative signage.

Goal 5.19 Continue to support air quality planning through land use policies, outreach efforts and coordination with regional air quality agencies.

- Policy 3 Encourage land use planning and urban design that reduces vehicle trips through mixed and multi-use development, consolidation of commercial development along major arterials, provision of pedestrian connections from residential to retail areas, and development of a multi-use Town Center.
- Policy 7 Encourage employers to develop trip reduction plans to promote alternative work schedules, ridesharing, telecommuting and work-at-home programs, employee education and preferential parking.

PUBLIC HEALTH & SAFETY ELEMENT

Goal 6.8 Reduce mobile and stationary source air pollutant emissions through cooperation and endorsement of the San Bernardino Regional Air Quality Plan and support of feasible techniques, incentives, and regulatory measures to achieve significant air quality improvements and any necessary air quality related lifestyle and economic changes while sustaining continued economic growth.

- Policy 8 Develop transportation demand management programs and incentives to reduce home to work vehicle trips.
- Policy 10 Reduce vehicle emissions by supporting the design and implementation of the Citywide system of bikeways and pedestrian trails as a non-polluting circulation alternative by requiring as part of the development review process the installation of planned bicycle routes, paths, and lanes where designated; and the construction of necessary bicycle parking and storage areas within convenient commercial, employment and recreation activity areas.
- Policy 12 Continue to encourage the integration of air quality planning with land use and transportation planning in the design, review, and development processes by:
 - Ensuring that site designs facilitate rather than discourage pedestrian movement between commercial development and residential or office uses (e.g., locate buildings adjacent to the street with parking behind such that pedestrians need not walk through parking lots to reach their destination; provide clear pedestrian paths and connections, etc.).
 - Supporting the mixed use overlay in the zoning ordinance as a means to enhance pedestrian movement throughout the City.
 - Integrating, where appropriate and feasible, traffic improvements (e.g., dedicated turn lanes and pockets, bus turnouts and shelters, restripe traffic lanes for optimal traffic flow) into capital improvement projects that improve the efficiency of transportation systems.



NOISE ELEMENT

Goal 7.2 Encourage the reduction of noise from transportation-related noise sources such as automobile and truck traffic.

- Policy 5 Encourage the development of alternative transportation modes such as bicycle paths and pedestrian walkways to minimize the number of automobile trips and noise.

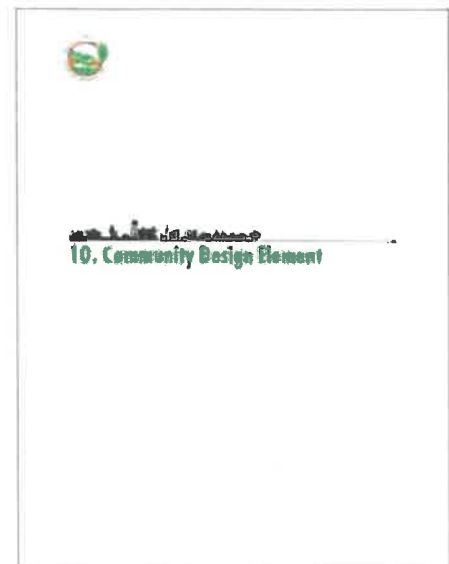
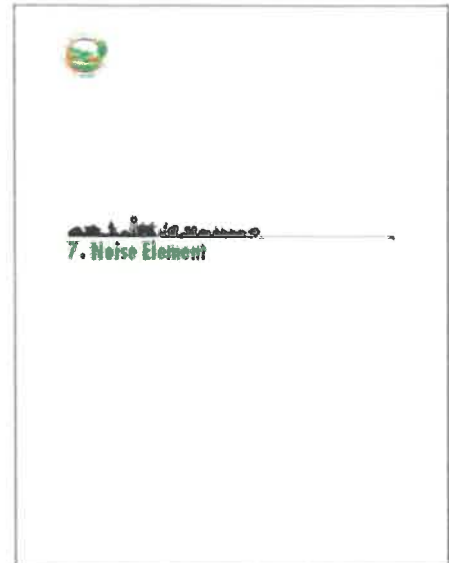
COMMUNITY DESIGN ELEMENT

Goal 10.3 Create a Town Center that is visually distinctive and vibrant and combines retail, residential, civic, cultural and recreational uses.

- Policy 3 Encourage compactness. Successful town centers stimulate energy and pedestrian activity by concentrating uses.
- Policy 5 Provide comfortable pedestrian amenities—quality sitting areas, wide paths and shade—along with specialized and engaging design features, such as interesting fountains or public art, which draw and maintain people’s attention.

Goal 10.5 Encourage the development of attractive, vibrant and convenient commercial centers through careful application of design policies and development standards.

- Policy 5 Clearly delineate pedestrian routes from parking areas to retail uses to allow easy and safe pedestrian movement.
- Policy 6 Encourage pedestrian-scale features such as shaded sitting areas, fountains, arcades, canopies and/or awnings, customized signage and strategically located secondary entrances.
- Policy 8 Link newly developed retail activity centers, where practical, to surrounding residential or office uses through clear and safe pedestrian and bicycle connections.



- Policy 10 Provide walls when necessary for security and/or privacy from adjoining residential uses. When walls are necessary, pedestrian breaks should be provided for access to commercial uses.
- Policy 11 Encourage creative wall design to avoid a blank appearance and utilize landscape buffers as an alternative to walls to facilitate pedestrian linkages to commercial areas.

Goal 10.6 Maintain and enhance single-family neighborhoods with attractive streetscapes, compatible architecture and a high quality of life.

- Policy 1 Incorporate landscaped parkways, consistently spaced street trees, continuous sidewalks and pedestrian-scale streetlights, wherever possible.
- Policy 12 In areas of small lot development, incorporate design features that connect it with adjoining areas such as consistent setbacks, building height and pedestrian connections.

Goal 10.7 Improve the visual quality of Base Line with mid-block corridor residential developments that are compatible with adjoining residential uses.

- Policy 10 Provide pedestrian access and connections to nearby retail, transportation, recreation and educational centers, where practical.

Goal 10.9 Support and strengthen public and private efforts to preserve historic structures and neighborhoods.

- Policy 3 Develop a clear pedestrian and vehicular connection between the City's emerging Town Center and the existing Historic District.

Goal 10.10 Guide the development of a variety of attractive, engaging and convenient public spaces, including plazas, pedestrian areas and recreational open space.

- Policy 3 In areas of heavy pedestrian use, provide wide sidewalks that allow room for window shopping, pedestrian passage, outdoor dining and landscape buffers.
- Policy 5 Incorporate pedestrian scaled, distinctive lighting fixtures in community facilities and other public places with occasional or frequent evening use.

Code of Ordinances

The following sections of Highland's municipal code govern rules related to active transportation in the city.



CHAPTER 10.24 LOCAL TRANSPORTATION CONTROL MEASURES FOR NEW DEVELOPMENTS

§ 10.24.010 BICYCLE RACKS – REQUIRED

All new nonresidential and multiple-family (of 10 or more units) developments subject to discretionary review shall provide secured bicycle parking racks at a ratio of one per 30 automotive parking spaces with a minimum of a three-bike rack. (Ord. 168 § 1, 1994)

§ 10.24.020 ON-SITE PEDESTRIAN WALKWAYS/BICYCLE PATHWAYS – REQUIRED

All new nonresidential and multiple-family (of 10 or more units) developments shall provide on-site walkways/bicycle pathways connecting each building to adjacent public streets. (Ord. 168 § 2, 1994)

§ 10.24.030 SHOWER FACILITIES – REQUIRED

All new nonresidential developments shall provide a minimum of one shower facility for men and women for employees walking or bicycling to work which exceed the following thresholds:

- A. Retail – 250,000 gross square feet (GSF);
- B. Industrial – 325,000 GSF;
- C. Office – 125,000 GSF. (Ord. 168 § 3, 1994)

§ 10.24.060 TRANSIT IMPROVEMENTS – REQUIRED

All new nonresidential and multiple-family developments along existing or planned transit routes shall provide transit improvements such as bus pullouts, bus pads, and bus shelter if determined to be necessary in consultation with Omnitrans or other locally operated transit system. (Ord. 168 § 6, 1994)

§ 10.24.090 REDUCED PARKING REQUIREMENTS

Provisions shall be made by the planning commission or design review committee (board) for reduction of on-site parking space requirements for all new nonresidential developments on a case by case basis when such developments are linked to other actions which reduce vehicle trips. (Ord. 168 § 9, 1994)

§ 10.24.100 COUNTYWIDE BICYCLE PLAN – CITY TO PARTICIPATE

The city shall participate in implementation of the countywide bicycle plan upon its adoption. (Ord. 168 § 10, 1994)

CHAPTER 16.44 SPECIFIC USE DEVELOPMENT STANDARDS

§ 16.44.250 SMALL LOT SINGLE-FAMILY DETACHED DESIGN GUIDELINES

C. Relationship with Adjacent Uses.

1. Project designs should connect into the adjacent neighborhoods and provide for future connections to currently undeveloped properties via streets or pedestrian and bike paths.
2. Projects adjacent to existing or future retail properties should provide auto, pedestrian and bicycle access to adjacent developments, coordinating with walkways and plaza locations.
4. Pedestrian, bike and visual connections should be made wherever auto connections are infeasible due to traffic, physical constraints or other considerations.

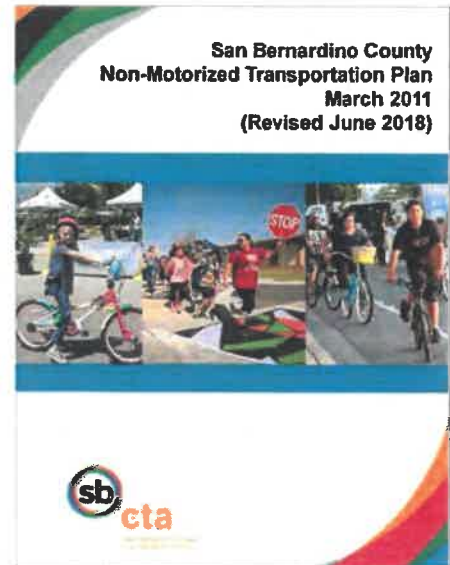
D. Internal Circulation.

5. Where loop street connections are not feasible, pedestrian and bike paths may be used as shortcuts to make walking and biking more convenient.
6. Internal street and path layouts should connect to landmarks or amenity features such as parks or community buildings.
8. Traffic calming measures, such as neckdown curbs and use of medians, should be used to increase pedestrian safety, especially at primary intersections, parks and common spaces, and tot lots.
9. Residentially scaled streetlights, separated sidewalks with street trees within planting strips or in tree wells and accent paving at neighborhood entries are strongly encouraged.
11. Where on-street parking is limited to a single side of the street, a sidewalk should be provided on that side.
12. Separated sidewalks with street trees or decorative tree grates are strongly encouraged for primary circulation and collector streets.

Regional

San Bernardino County Transportation Authority (SBCTA) Non-Motorized Transportation Plan (2018)

With the revised Non-Motorized Transportation Plan, SBCTA seeks to develop a cohesive and integrated plan for the region and identify sources of funds to implement that plan. A response to California Senate Bill 375 initiative to reduce Vehicle Miles Traveled (VMT) and Green House Gas (GHG) emissions, the plan aims to expand bicycle and pedestrian facilities and access within and between neighborhoods, to employment centers, shopping areas, schools, and recreational sites.



COMPLETE STREETS STRATEGY (2015, ADDENDUM TO NMTP)

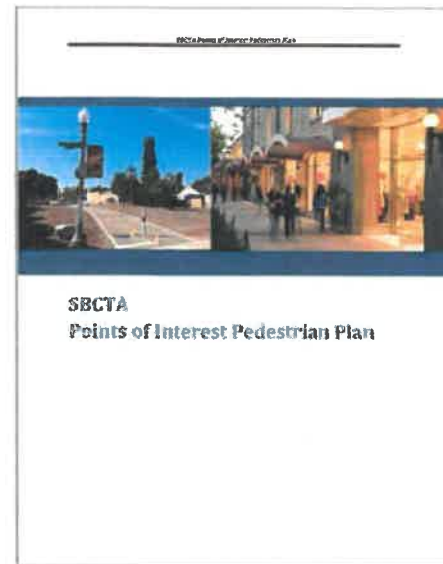
While this strategy document does not identify any particular projects, it establishes the County's commitment to Complete Streets policy, helps jurisdictions comply with Assembly Bill (AB) 1358 (also known as the Complete Streets Act of 2008), and qualifies them for particular state funds. The strategy also gives guidance for incorporating Complete Streets policy into more general transportation/land-use policy.

SBCTA Points of Interest Pedestrian Plan (PIPP) (2016)

The Points of Interest Pedestrian Plan (PIPP) aims to capture important locations in need of active transportation improvements that were not adequately captured in the original bicycle-centric Non-Motorized Transportation Plan (NMTP), the broad SBCTA Complete Streets Strategy, or the school site focused Safe Routes to School Plan (SRTSP). The PIPP provides a sample pedestrian plan for each of the 25 member jurisdictions, a list of additional pedestrian sites in need of pedestrian focused improvements.

Priority locations identified in Highland include:

- Highland City Administration
- Base Line Road Retail
- The Village at East Highlands Shopping
- Recreational Facilities
- Arroyo Verde Elementary
- Highland Library
- YMCA
- Ball Fields
- Cypress Elementary
- Highland California Historic District
- Highland Grove Elementary
- Beattie Middle School
- Cunningham Neighborhood Park
- Aurantia Park
- Cram Elementary School



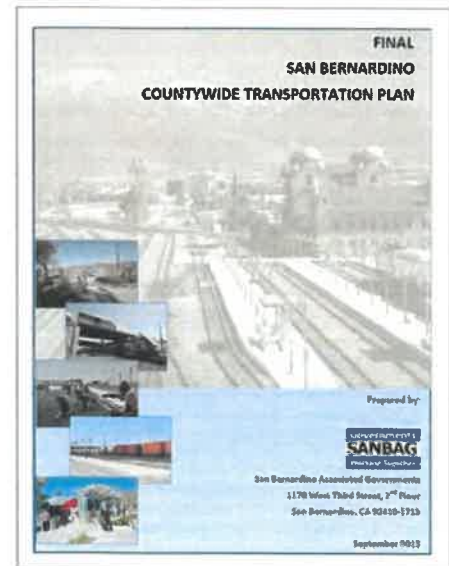
The PPP provides pedestrian and bicycle recommendations for the Historic District which are considered in this Plan.

San Bernardino Countywide Transportation Plan (2015)

The Countywide Transportation Plan (CTP) lays out a strategy for long term investment in and management of San Bernardino County's transportation assets. Rooted in six goals, the corresponding objectives are:

- Reduce travel times for both highway and transit travel
- Maximize the efficiency and reliability of the transportation system
- Reduce vehicle hours traveled
- Reduce vehicle emissions, both criteria pollutants and GHG emissions
- Increase the share of people carpooling, bicycling, walking and taking transit
- Reduce collision rates
- Preserve existing infrastructure in a cost-effective manner
- Encourage development around existing and planned transit stations and hubs

The CTP affirms active transportation's role in advancing these goals, and commits SANBAG (now SBCTA) to continuing to incorporate strategies identified in the NMTP to enhance active transportation mobility. This Plan advances these objectives and SBCTA's initiatives surrounding biking and walking.

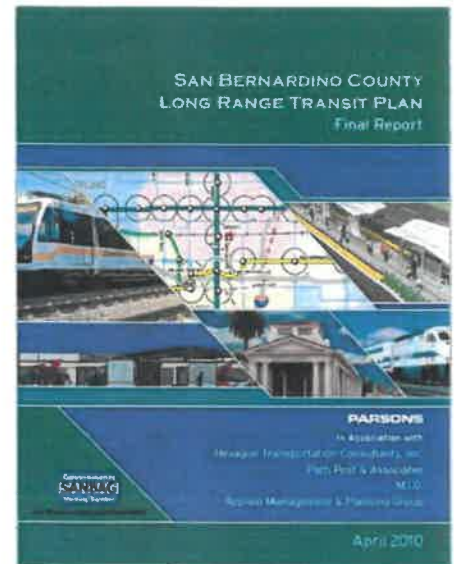


San Bernardino County Long Range Transportation Plan (2010)

The Long Range Transit Plan (LRTP) addresses the county's current and future travel challenges and provides a system of transit facilities and services that can increase transit's role in the future. The LRTP outlines a strategy for providing transit to the growing population in San Bernardino County, focuses on expanding "high quality" transit and transit-oriented development, and establishes urban design policies that enhance pedestrian facilities, safety, and accessibility to transit, including:

- Pedestrian connections from adjoining neighborhoods
- Street design that includes all modes
- Traffic calming features

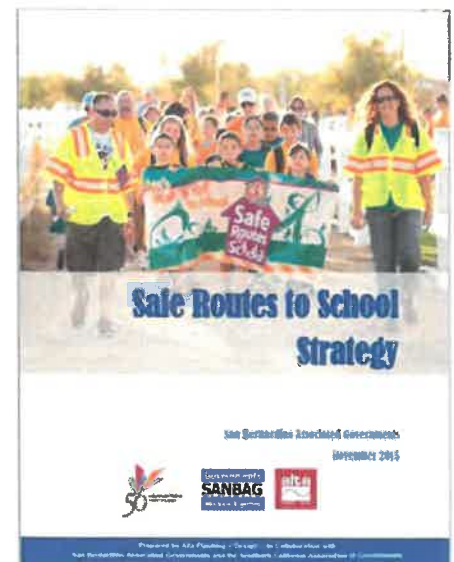
The LRTP details existing and planned active transportation facilities in the city, and reports on estimated costs of previous and future investments.



San Bernardino County Regional SRTS Plan Phase I (2015)

The San Bernardino Associated Governments (SANBAG) SRTS Strategy is Phase I of a comprehensive effort by SANBAG and local jurisdictions to identify existing resources, prioritize allocation of resources, and develop implementable SRTS strategies. These strategies will help SANBAG and local jurisdictions promote active transportation options and shift travel from single-occupancy vehicles.

During Phase I, the project team identified focus areas within San Bernardino County that could most benefit from SRTS investments relative to other areas within the region. The analysis has two parts: The first considers the areas of the San Bernardino region that have the most need for SRTS interventions and areas that have the most potential for students walking and biking. The

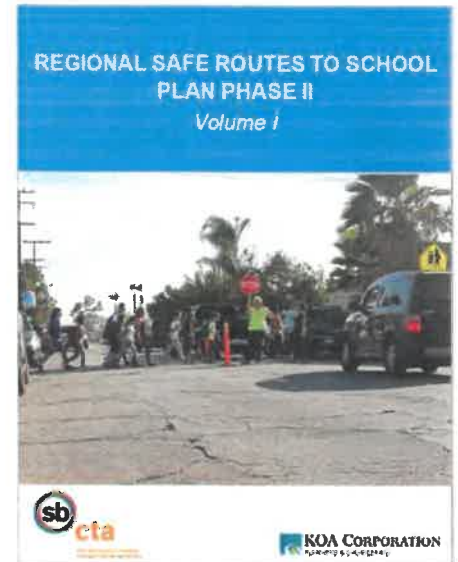


second part of this analysis identifies an initial School Commute Network based on the proposed bicycle routes identified in the Non-Motorized Transportation Plan (NMTP) that could be appropriate for youth bicyclists.

SBCTA Safe Routes to School Phase II (2017)

This phase of the Regional Safe Routes to School (SRTS) Plan was created with the purpose of guiding strategic improvements to the safety and accessibility of non-motorized transportation networks around San Bernardino County schools. For this phase, 55 schools (or roughly 10% of public schools in the County) were selected for data collection and initial implementation, including two schools in Highland:

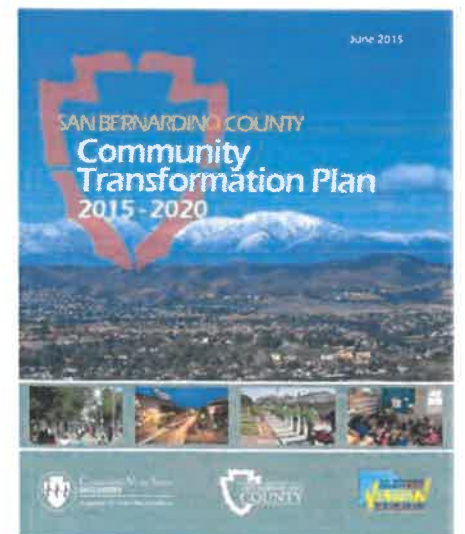
- Lankershim Elementary School
- Warm Springs Elementary School



San Bernardino Community Transformation Plan (2011)

The Community Transformation Plan is intended to drive discussion at the community level and future alignment of strategies and resources in order to achieve wellness in San Bernardino County. The information contained in this document is intended for use by residents, all sectors, networks, and partnerships committed to taking action to address the priority health related issues together, including:

- Increase the number of residents participating in daily physical activity
- Increase options for active transportation planning such as walking and biking



Overall, fewer adults in San Bernardino County walked for transportation, fun, or exercise than in California and less than 20% of teens (ages 12-17) in the county

met the CDC recommendation of 60 minutes of physical activity every day, greater than compared to California at 15% in 2009.

People living in unsafe neighborhoods also tend to have fewer options for public transportation or open spaces to be active, factors which further diminish their ability to engage in healthy behaviors.

***San Bernardino County Department of Public Health
Strategic Plan 2015-2020 (2018)***

Created by the Department of Health (DPH) in the context of several other critical countywide efforts—the Countywide Vision and the Community Vital Signs Initiative—the Strategic Plan lays out the goals and objectives for the department over the next five years. The plan reviews health indicators for the region, and establishes goals around five priority areas:

- 11. Community and Environment
- 12. Empowerment
- 13. Health Equity
- 14. Health Services and Protection
- 15. DPH Infrastructure

While not in itself a policy document, this plan provides strategies, resources, and examples for policy makers. It also outlines the connections between policy, built environment, and public health.



Customer-Focused, Technology-Enabled Multi-Modalism for the San Bernardino Valley: An Action Plan (2018)

The Customer-Based Ridesharing and Transit Interconnectivity Study was initiated by the San Bernardino County Transportation Authority (SBCTA) with its partners, the Southern California Association of Governments (SCAG) and Omintrans. This Action Plan provides a road map of strategies by which to operationalize Mobility-as-a-Service – strategies that communicate choice, invite people to consider alternatives to driving alone and help them develop sufficient confidence to try new modes.

While this plan helps advance many goals outlined in the study, it most directly supports Implementation Action 2.6: Bike/Pedestrian Infrastructure:

"This strategy's objective is to ensure continued attention to street safety by ensuring high priority to street and sidewalk improvements that support the safety and accessibility of the bicycle network and pedestrians, with a focus on multimodal nodes and furthering Vision Zero goals."

Southern California Association of Governments (SCAG) 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016)

The SCAG Regional Transportation Plan includes a commitment to reduce transportation related emissions to comply with California Senate Bill 375. This Plan will help Highland contribute to this goal.



State

California State Bicycle & Pedestrian Plan (2017)

The California State Bicycle and Pedestrian Plan is a visionary and comprehensive policy plan to promote a multi-modal transportation system that supports active modes of transportation and creates a framework to increase safe bicycling and walking. The plan contains:

- Strategies to achieve the goals and objectives outlined in the plan
- Performance measures and data needs to evaluate success
- Recommendations for improved Caltrans processes
- Safety statistics and a safety awareness brochure
- Investment strategies

This plan will help Highland to work with the local Caltrans office to implement projects on Caltrans rights-of-way.

Complete Streets Implementation Action Plan 2.0 (2017)

The intent of the Complete Streets Implementation Action Plan 2.0 is to describe the current California Department of Transportation (Caltrans) complete streets policy framework and to provide an overview of Caltrans' complete streets efforts. This policy directs Caltrans to provide for the needs of all travelers of all ages and ability in all planning, programming, design, construction, operations, and maintenance activities, and products on the State highway system. This update of the plan lays out the structure for monitoring, reporting, and overcoming barriers to further integrate complete streets into all Caltrans functions and processes.

Senate Bill 99 - Active Transportation Program Act (2013)

SB 99 establishes the Active Transportation Program for the state, in accordance with the federal Moving Ahead for Progress in the 21st Century (MAP-21) legislation, to encourage increased use of active modes of transportation and create a mechanism for distributing federal funds to local and regional efforts. The bill includes the following goals for the Active Transportation Program:

- Increase the proportion of trips accomplished by bicycling and walking
- Increase safety and mobility for non-motorized users
- Advance the active transportation efforts of regional agencies to achieve greenhouse gas reduction

- Enhance public health, including reduction of childhood obesity through the use of programs including, but not limited to, projects eligible for Safe Routes to School Program funding
- Ensure that disadvantaged communities fully share in the benefits of the program
- Provide a broad spectrum of projects to benefit many types of active transportation users

Caltrans Deputy Directive 64 – Complete Streets (2008)

In 2001, the California Department of Transportation (Caltrans) adopted Deputy Directive 64, "Accommodating Non-Motorized Travel," which contained a routine accommodation policy. The directive was updated in 2008 as "Complete Streets – Integrating the Transportation System." The new policy includes the following language:

The Department views all transportation improvements as opportunities to improve safety, access, and mobility for all travelers in California and recognizes bicycle, pedestrian, and transit modes as integral elements of the transportation system.

The Department develops integrated multimodal projects in balance with community goals, plans, and values. Addressing the safety and mobility needs of bicyclists, pedestrians, and transit users in all projects, regardless of funding, is implicit in these objectives. Bicycle, pedestrian and transit travel is facilitated by creating "complete streets" beginning early in system planning and continuing through project delivery and maintenance operations.

The directive establishes Caltrans' own responsibilities under this policy. The responsibilities Caltrans assigns to various staff positions under the policy include the following:

- Ensure bicycle, pedestrian, and transit interests are appropriately represented on interdisciplinary planning and project delivery development teams.
- Ensure bicycle, pedestrian, and transit user needs are addressed and deficiencies identified during system and corridor planning, project initiation, scoping, and programming.
- Ensure incorporation of bicycle, pedestrian, and transit travel elements in all Department transportation plans and studies.
- Promote land uses that encourage bicycle, pedestrian, and transit travel.
- Research, develop, and implement multimodal performance measures.

Assembly Bill 1358 - Complete Streets Act (2008)

In September 2008, California adopted a new law that requires cities and counties to include complete streets policies as part of their general plans so that roadways are designed to safely accommodate all users, including bicyclists, pedestrians, transit riders, children, older adults, and people with mobility impairments, as well as motorists.

Senate Bill 375 - California Sustainable Communities Strategy (2008)

SB 375 is the first law in the nation that attempts to control greenhouse gas emissions by curbing sprawl. The law requires the California Air Resources Board (CARB) to develop regional targets for reductions in greenhouse gas emissions from passenger vehicles for 2020 and 2035. Each of the 18 metropolitan planning organizations in California will need to prepare a "sustainable communities strategy" for meeting the emissions reductions target in its region through transportation and land use actions that reduce the number of vehicle miles traveled. SB 375 establishes per-capita greenhouse gas emission reduction targets of 7% by the year 2020 and 15% by the year 2035, using 2005 levels as the base year.

Assembly Bill 32 - California Global Warming Solutions Act (2006)

The California Global Warming Solutions Act aims to reduce the state's emissions of greenhouse gases to 1990 levels by 2020 and to 80% below 1990 levels by 2050. The law requires the California Air Resources Board (CARB) to adopt a "scoping plan" indicating how the 2020 target for emission reductions may be achieved from significant greenhouse gas sources through regulations, market mechanisms, and other actions. One of the recommended actions in the CARB scoping plan is to "develop regional greenhouse gas emissions reduction targets for passenger vehicles." The mechanism for developing these targets was established by separate legislation, Senate Bill 375.

Federal Plans and Policies

US DOT Policy Statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations (2010)

The United States Department of Transportation (US DOT) issued this Policy Statement to support and encourage transportation agencies at all levels to establish well-connected walking and bicycling networks. The DOT encourages States, local governments, professional associations, community organizations, public transportation agencies, and other government agencies, to adopt similar policy statements on bicycle and pedestrian accommodation as an indication of their commitment to accommodating bicyclists and pedestrians as an integral element of the transportation system.

APPENDIX E: RESOLUTION

Attachment 2

RESOLUTION NO. 2020-____

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF HIGHLAND, RECOMMENDING THE CITY COUNCIL ADOPT THE ACTIVE TRANSPORTATION PLAN OF THE CITY OF HIGHLAND AND MAKING FINDINGS IN SUPPORT THEREOF.

A. RECITALS

1. The City of Highland was selected to participate in the Southern California Association of Government's (SCAG) Disadvantaged Communities Active Transportation Planning Initiative, and initiated drafting the Active Transportation Plan to provide a comprehensive plan for a network of trails, bike lanes, sidewalks, and other elements aimed at supporting safe walking and bicycling throughout the City and providing connections to nearby destinations.
2. The Active Transportation Plan is exempt from the California Environmental Quality Act (CEQA) as it meets the definition of a Feasibility or Planning Study under CEQA Guidelines, Section 15262.
3. The proposed Active Transportation Plan meets the **General Plan Land Use Element Goal 2.1, Policy 2**; Ensure that the Town Center and Golden Triangle promote safe and convenient pedestrian environments for residents, employees and visitors through the implementation of Land Use and Community Design Element policies and guidelines and Development Code standards.
4. The proposed Active Transportation Plan meets the **General Plan Land Use Element Goal 2.10, Policy 3**; Provide access to multiple modes of travel, including pedestrian, bicycle, transit, and automobile.
5. The proposed Active Transportation Plan meets the **General Plan Land Use Element Goal 2.10, Policy 7**; Connect the Town Center physically and visually with the Historic Village District with pedestrian connections, historically compatible architecture, signage, landscaping, and other streetscape elements.
6. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.1, Policy 10**; Encourage major employers to reduce vehicular trips by offering incentive concepts discussed in the General Plan Circulation Element, including but not limited to reduced transit passes and preferential parking for ridesharing.
7. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.2, Policy 1**; Maintain and rehabilitate all components of the circulation system, including roadways, sidewalks, bicycle facilities, pedestrian facilities, and traffic signals.
8. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.2, Policy 4**; Coordinate maintenance or enhancement of transportation facilities with related infrastructure improvements.
9. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 1**; Establish the local street system within developing neighborhoods through a cooperative public/private planning process.

10. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 3**; Promote the principle that streets have multiple uses and users and protect the safety of all users.
11. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 4**; Require new development to provide pedestrian paths and linkages through projects, locating linkages to avoid conflicts with motorized traffic.
12. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 5**; Discourage high-speed, through traffic on local streets with appropriate traffic-calming measures (e.g., traffic enforcement, bulb-outs, lane striping, chokers, etc.).
13. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 7**; Utilize shared driveways in common areas to minimize disruptions to traffic and pedestrian/bicycle flow.
14. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 11**; Encourage and improve pedestrian connections from residential neighborhoods to retail activity centers, employment centers, schools, parks, open space areas and community centers.
15. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 12**; Encourage barrier-free accessibility for all handicapped residents, employees, and visitors throughout the City's circulation system.
16. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 13**; Support the planning of sidewalks of appropriate width to allow the provision of buffers to shield nonmotorized traffic from vehicles.
17. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 14**; Add raised, landscaped medians and bulb-outs, where appropriate, to reduce exposure to cross traffic at street crossings.
18. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.4, Policy 15**; When feasible, walkways should include pedestrian amenities such as shade trees and/or plantings, trash bins, benches and shelters.
19. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.7, Policy 1**; Develop a system of continuous and convenient bicycle routes to places of employment, shopping centers, schools, and other high activity areas with potential for increased bicycle use.
20. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.7, Policy 2**; Encourage new development to provide reasonable and secure space for bicycle storage.
21. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.7, Policy 3**; Provide bicycle racks at all public facilities and along major public streets.
22. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.7, Policy 4**; Assure that local bicycle routes will complement regional systems and be compatible with routes of neighboring municipalities.
23. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.7, Policy 5**; Provide linkages between bicycle routes and other

trails, such as the Santa Ana River Trail, within the City as appropriate.

24. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.8**; Incorporate consideration of regional transportation implications into decisions made by the City of Highland and, conversely, incorporate consideration of the local transportation implications on the City of Highland into decisions made by other local agencies, as well as into decisions made by state and federal agencies.
25. The proposed Active Transportation Plan meets the **General Plan Circulation Element Goal 3.9, Policy 5**; Develop strategies for the control of parking demand such as improved transit service, amenities for bicyclists and rideshare vehicles.
26. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.10, Policy 30**; Develop Integrate park and recreation facilities with existing and future trail and bikeways, wherever practical.
27. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.12, Policy 1**; Policy 1 Provide trail connections between and/or along the major city and surrounding regional facilities, sites and features indicated on the Multi-Use Trails Master Plan.
28. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element, Goal 5.12, Policy 2**; Provide bicycle and pedestrian trails along major home-to-work, home-to-school and other travel routes, where appropriate.
29. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element, Goal 5.12, Policy 3**; Seek to construct or assist in the construction of those portions of the San Bernardino County Regional Trail system that are located within Highland.
30. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element, Goal 5.12, Policy 4**; Require the dedication of trail easements, where appropriate, for establishing a planned trails system alignment, or where an established trail is jeopardized by impending development or subdivision activity.
31. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element, Goal 5.12, Policy 5**; Where possible, designate and design new trail development near transit routes or heavily traveled areas.
32. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.13, Policy 3**; Adopt the following hierarchy of users on the City's trail system:
 - Bicyclists must yield right-of-way to all other users.
 - Runners must yield to hikers and equestrians (note: horses should not be on trails predominantly intended for bikes and pedestrians).
 - Hikers must yield to equestrians.
33. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.13, Policy 5**; Require that cyclists adhere to the following requirements:
 - Alert hikers and equestrians of their presence.
 - Travel no faster than 15 mph, unless conditions warrant reduced speed.
 - Slow to 5 mph when passing and dismount when necessary.

34. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.13, Policy 6**; Promote adherence to the following code of off-road bicycling responsibility, as developed by the International Mountain Bicycling Association:
- Ride on open trails only.
 - Control your bicycle.
 - Always yield trail.
 - Never spook animals.
 - Leave no trace.
 - Plan ahead.
35. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.13, Policy 8**; Incorporate, where feasible and without compromising safety, all compatible multiple uses on a single trail.
36. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.13, Policy 9**; Where a single trail is not feasible or there is heavy use, provide alternate or parallel routes and/or design separate, dual trails.
37. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.13, Policy 10**; Allow ample space in right-of-way for safe passage of users, for signing, fencing, separation of trails, trailheads and where appropriate, landscaping.
38. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.14**; Maintain and enhance the trail system's clear and informative signage.
39. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.19, Policy 3**; Encourage land use planning and urban design that reduces vehicle trips through mixed and multi-use development, consolidation of commercial development along major arterials, provision of pedestrian connections from residential to retail areas, and development of a multi-use Town Center.
40. The proposed Active Transportation Plan meets the **General Plan Conservation and Open Space Element Goal 5.19, Policy 7**; Encourage employers to develop trip reduction plans to promote alternative work schedules, ridesharing, telecommuting and work-at-home programs, employee education and preferential parking.
41. The proposed Active Transportation Plan meets the **General Plan Public Health and Safety Element Goal 6.8, Policy 8**; Develop transportation demand management programs and incentives to reduce home to work vehicle trips.
42. The proposed Active Transportation Plan meets the **General Plan Public Health and Safety Element Goal 6.8, Policy 10**; Reduce vehicle emissions by supporting the design and implementation of the Citywide system of bikeways and pedestrian trails as a nonpolluting circulation alternative by requiring as part of the development review process the installation of planned bicycle routes, paths, and lanes where designated; and the construction of necessary bicycle parking and storage areas within convenient commercial, employment and recreation activity areas.

43. The proposed Active Transportation Plan meets the **General Plan Public Health and Safety Element Goal 6.8, Policy 12**; Continue to encourage the integration of air quality planning with land use and transportation planning in the design, review, and development processes by:
- Ensuring that site designs facilitate rather than discourage pedestrian movement between commercial development and residential or office uses (e.g., locate buildings adjacent to the street with parking behind such that pedestrians need not walk through parking lots to reach their destination; provide clear pedestrian paths and connections, etc.).
 - Supporting the mixed use overlay in the zoning ordinance as a means to enhance pedestrian movement throughout the City.
 - Integrating, where appropriate and feasible, traffic improvements (e.g., dedicated turn lanes and pockets, bus turnouts and shelters, restripe traffic lanes for optimal traffic flow) into capital improvement projects that improve the efficiency of transportation systems.
44. The proposed Active Transportation Plan meets the **General Plan Noise Element Goal 7.2, Policy 5**; Encourage the development of alternative transportation modes such as bicycle paths and pedestrian walkways to minimize the number of automobile trips and noise.
45. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.3, Policy 3** Encourage compactness. Successful town centers stimulate energy and pedestrian activity by concentrating uses.
46. The proposed Active Transportation Plan meets the **General Plan Community Design Plan Element Goal 10.3, Policy 5**; Provide comfortable pedestrian amenities—quality sitting areas, wide paths and shade—along with specialized and engaging design features, such as interesting fountains or public art, which draw and maintain people’s attention.
47. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.5, Policy 5**; Clearly delineate pedestrian routes from parking areas to retail uses to allow easy and safe pedestrian movement.
48. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.5, Policy 6**; Encourage pedestrian-scale features such as shaded sitting areas, fountains, arcades, canopies and/or awnings, customized signage and strategically located secondary entrances.
49. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.5, Policy 8**; Link newly developed retail activity centers, where practical, to surrounding residential or office uses through clear and safe pedestrian and bicycle connections.
50. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.5, Policy 10**; Provide walls when necessary for security and/or privacy from adjoining residential uses. When walls are necessary, pedestrian breaks should be provided for access to commercial uses.
51. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.5, Policy 11**; Encourage creative wall design to avoid a blank appearance and utilize landscape buffers as an alternative to walls to facilitate pedestrian linkages to commercial areas.

52. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.6, Policy 1**; Incorporate landscaped parkways, consistently spaced street trees, continuous sidewalks, and pedestrian-scale streetlights, wherever possible.
53. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.6, Policy 12**; In areas of small lot development, incorporate design features that connect it with adjoining areas such as consistent setbacks, building height and pedestrian connections.
54. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.7, Policy 10**; Provide pedestrian access and connections to nearby retail, transportation, recreation, and educational centers, where practical.
55. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.9, Policy 3**; Develop a clear pedestrian and vehicular connection between the City's emerging Town Center and the existing Historic District.
56. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.10, Policy 3**; In areas of heavy pedestrian use, provide wide sidewalks that allow room for window shopping, pedestrian passage, outdoor dining and landscape buffers.
57. The proposed Active Transportation Plan meets the **General Plan Community Design Element Goal 10.10, Policy 5**; Incorporate pedestrian scaled, distinctive lighting fixtures in community facilities and other public places with occasional or frequent evening use.
58. In the process of drafting the Active Transportation Plan, community participation events were scheduled to gather input from public agency stakeholders, residents, and recreational participants.
59. Notice was duly provided to the public, stake holders of government agencies and all other interested parties.
60. A duly noticed public hearing has occurred concerning the Active Transportation Plan.
61. A public hearing was held on December 15, 2020, at which time all interested persons were given full opportunity to be heard and to present comments.
62. Prior to taking actions, the Planning Commission has heard, been presented with, and/or reviewed all of the information and data which constitutes the administrative record for the above-mentioned plan, including all oral and written comments presented to the City during all project meetings and hearings.
63. All other legal prerequisites to the adoption of this Resolution have occurred.

B. RESOLUTION

NOW, THEREFORE, it is hereby found, determined, and resolved by the Planning Commission of the City of Highland as follows:

Section 1. The above recitals are all true and correct.

Section 2. The Planning Commission hereby determines that the Active Transportation Plan meets the definition of a 'Feasibility or Planning Study' under CEQA Guidelines, Article 18, Statutory Exemptions, Section 15262, and is therefore exempt from the California Environmental Quality Act (CEQA), and recommends the City Council direct staff to file a Notice of Exemption with the County Clerk of the Board.

Section 3. Based on the information contained in the staff report and supporting exhibits and plans, the Planning Commission hereby finds:

- a) The proposed plan will not result in a significant adverse effect on the environment and will not negatively affect public health, safety, and welfare as the plan provides a comprehensive network of bike lanes, sidewalks, and other elements aimed at supporting safe walking and bicycling through the City and providing connections to nearby destinations to encourage a more active lifestyle instead of automobile use.
- b) The Active Transportation Plan is consistent with and will contribute to achieving the goals and objectives established by the Highland General Plan to minimize automobile congestion and to provide a well-planned network bike lanes, sidewalks, and other elements aimed at supporting safe walking and bicycling throughout the City.
- c) The Active Transportation Plan will preserve and enhance existing residential neighborhoods by providing greater connectivity throughout the City by improving safety standards and minimizing potential conflicts with pedestrians and bicycles with motor vehicles.

Section 4. Based on the foregoing findings, the Commission recommends that the City Council adopt the Highland Active Transportation Plan to implement the City of Highland General Plan, as funding becomes available for projects recommended within the Plan.

Section 5. The Planning Commission declares that should any provision, section, paragraph, sentence, or word of this Resolution be rendered or declared invalid by any court of competent jurisdiction, or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences, and words of this Resolution shall remain in full force and effect.

C. ADOPTION OF RESOLUTION

The City Clerk shall certify to the adoption of this Resolution and shall cause the same to be published or posted in the manner prescribed by law.

ADOPTED, SIGNED, AND APPROVED this 15th day of December 2020.

ATTEST:

Randall Hamerly, Chairman
Planning Commission

Lawrence A. Mainez
Community Development Director